

Osler 14 W.G.7.

Osleriana

[The following MSS., nos. 7639-68, have, with a few exceptions, been identified and arranged since Sir William Osler's death. Those not previously bound, and now in a uniform half-leather binding, were not necessarily intended for permanent preservation, nor the unpublished material for publication.]

OSLER (SIR WILLIAM) 1849-1919.

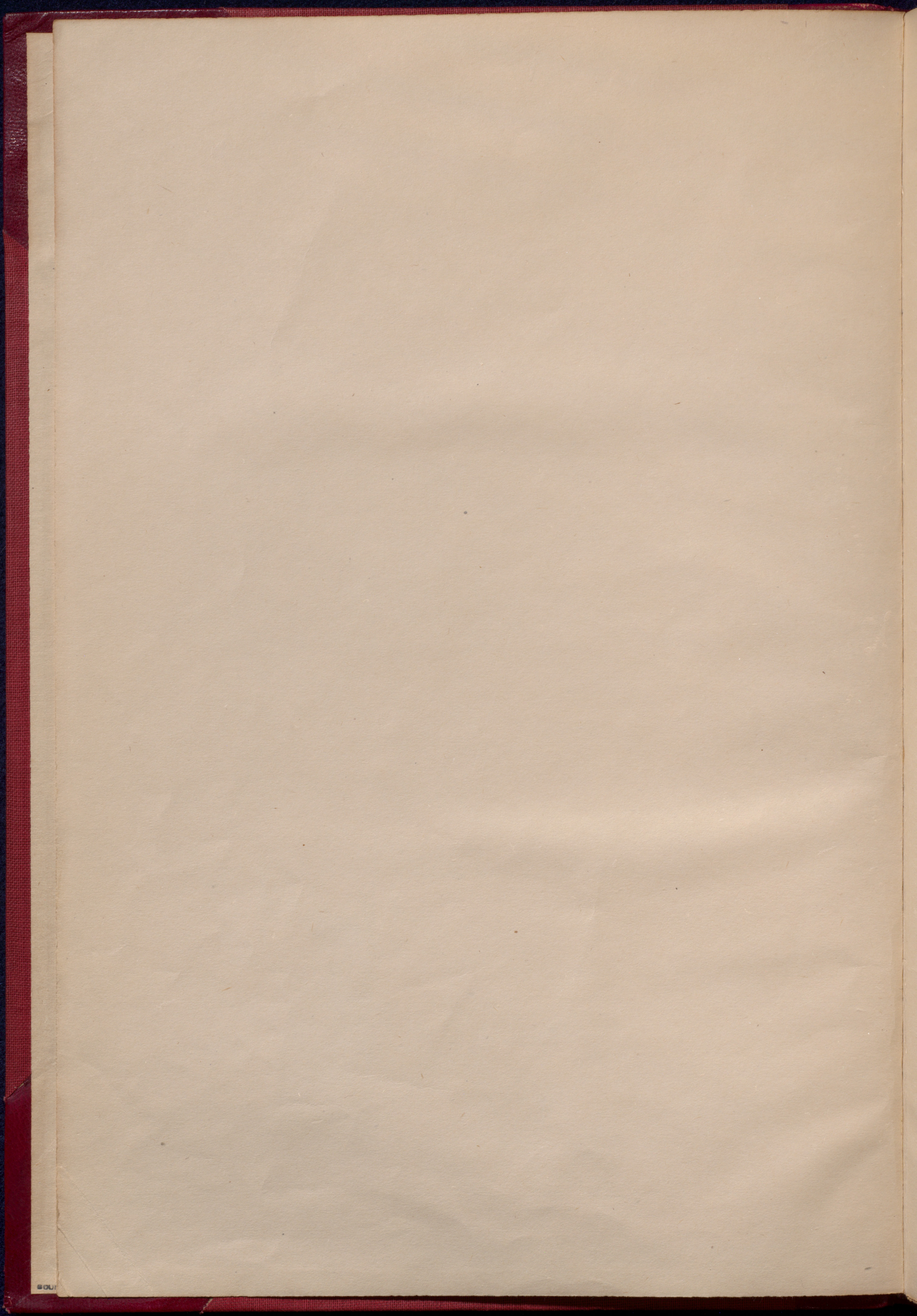
7639. [Answers to three examination papers: (i) 'Physiology, 1st year, W. Osler, 1/4/68', University of Toronto; (ii) another, endorsed in his later hand 'Phy. paper, Tor. Univ.', undated; and (iii) 'Final paper', in medicine, undated (? McGill, 1872).]

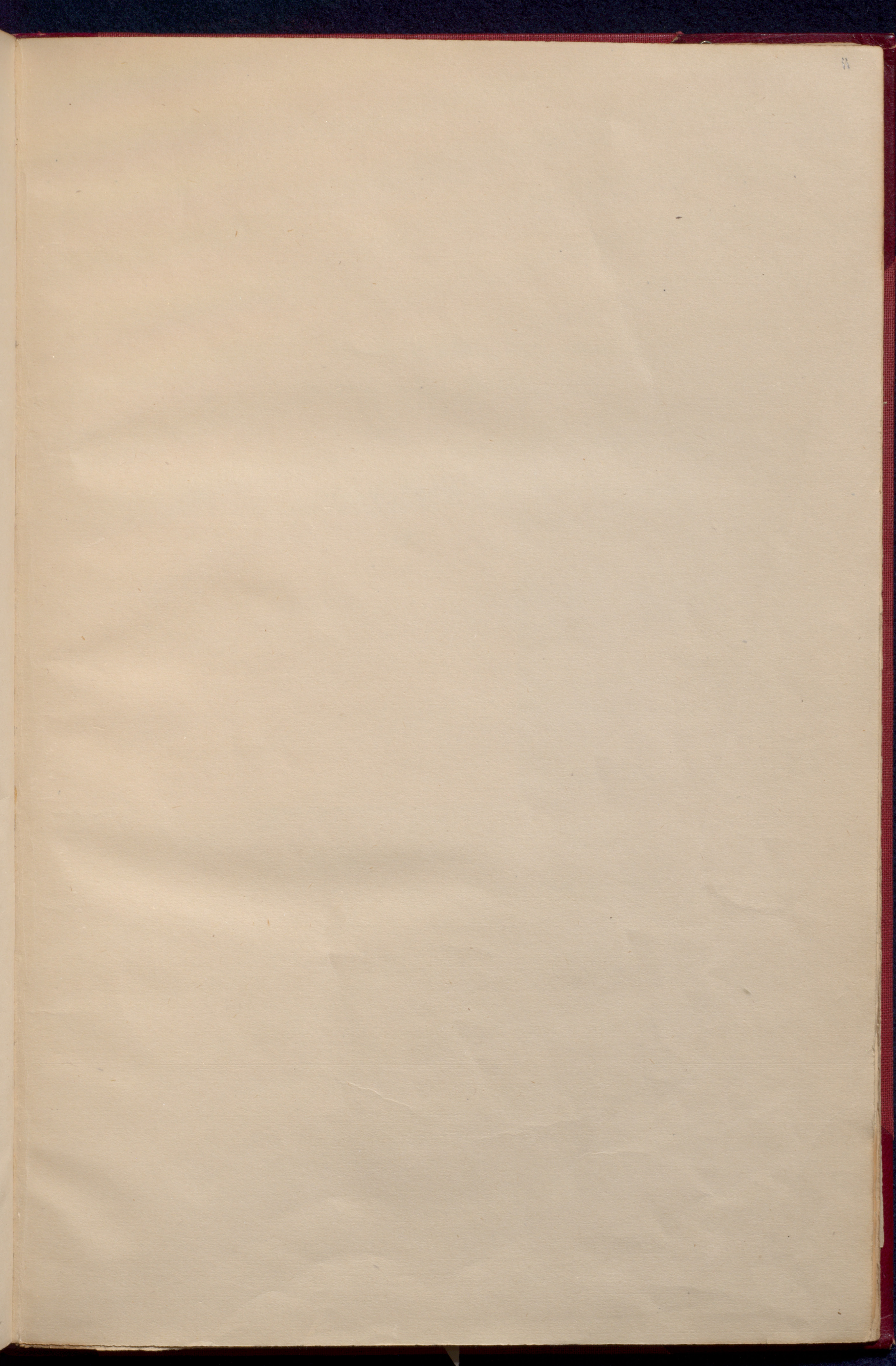
Inserted in 1940 as foll. 28a-c:
Osler's THESIS, 1872, 3 leaves of
draft of introd. c.

FROM
THE LIBRARY
OF
SIR WILLIAM OSLER, BART.
OXFORD

Inserted in 1962.

- iv. "Trinity College. First Year Examination, June 1868. Euclid." [2 sheets]
- v. "Latin Prose (Pass) June 1868. Coll. S.S. Trin. Toronto" [1 sheet]
- vi. "Trinity College. Examination 1868. Algebra" [1 sheet]
- vii. "Trinity College. June 1868. 1st year. Homer. Horace. Hon. Classics" [1 sheet]
- viii. "Trinity College. June 1868. 1st year. Terence. Pass Latin" [1 sheet]
- ix. "Roman History June 1868. [1 sheet]
- x. "Trinity College. June Examination - 1868 - Trigonometry" [1 sheet]
- xi. "Trinity College. June Examination. 1868. 1st year - Medea - Hippolytus" [1 sheet]





Originals of Wilhelm Osler's answers
to examination questions:—

[1]

"Physiology... 1/4/68" [at Toronto University]

✱

endorsed "My paper at the 1st year examination
at Toronto"

fol. 1-12.

7639

W.O."

Osler's hand "Phy. paper
primary" etc, which he had
in 1871.

fol. 13-19.

is endorsed on the verso
by / Very good / paper / JB "

" in hand, probably 1872

fol. 21-28

[4] (added in 1940:)

Thesis, 1872. 3 leaves of draft of introd.

fol. 28a-c.

OSLER's answers in physiology
examinations at the Toronto School
of Medicine, 1868, and at McGill,
1871.

Originals of Wilhelm Osler's answers
to examination questions:—

[1] "Physiology... 1/4/68" [at Toronto University]

* endorsed "my paper at the 1st year examination
of Univ. of Toronto
W.O."

fol. 1-12.

[2] also physiology

endorsed in Sir Wilhelm Osler's hand "Phy. paper
Tor. Univ." but probably his "primary" ~~at~~, that he had
to pass over again at McGill in 1871.

fol. 13-19.

* Noted in card cat, 1940, that this is endorsed on the verso
of leaf 4, probably by Borrel, "Osler / Very good / paper / JB"

[3] (see fol. 20:) "Final paper" in med., probably 1872

fol. 21-28

[4] (added in 1940:)

Thesis, 1872, 3 leaves of draft of introd.

fol. 28a-c.

P
j
w
f
E

Report of the
Commissioner of the
General Land Office

for the year
ended June 30, 1891
and for the year
ended June 30, 1892

Part I

General Land Office
Washington, D. C.

Printed by the Government Printer
Washington, D. C.

1892

1892

1892

Part of Osler's McGill graduation thesis based on 20 post mortems, judged to be "greatly distinguished for originality and research" for which he was awarded a special book prize. In addition he placed first in the final exam. Spring, 1872.

B.O. 7639, Osler Library

(2)

the chords and allow the
prevent this the Chordae-

the tricuspid valve closes
part of the wall of the ventricle. The whole fo-
cle is then employed in forcing the blood into the pulmonary
artery pressing back the semilunar valves. During the
ventricular systole the auriculo-ventricular valves are
prevented from flapping back into the auricles by the
chordae tendineae which are attached to their ventr-
surface. But as the ventricle contracts

[illegible]

(2)

(1) sides together it would shorten the chords and allow the valves to flap back, ~~and~~ but to prevent this the Chordae-

Physiology Wosler

(1)

(1)

The Blood returned from the body by the Superior & inferior Vena cava enters the right auricle during its diastole, when the auricle contracts it has a tendency to drive the blood in two directions viz towards the great veins and towards the ventricle but towards the great veins it is resisted by the whole mass of blood in them while no resistance is offered towards the ventricle, the auriculo-ventricular valves being open, consequently the Blood rushes through them ^{and dilate to receive it} into the ventricle which is empty. In certain diseased states there is a small amount of reflux into the great veins, ^{as} ~~and~~ it is seen sometimes in the venous pulse of the neck when the ventricle contracts the blood getting behind the ~~valve~~ and is poured into the ~~veins~~ ^{aorta}, and then they form ~~is as it were grafted onto the Systemic~~, ^{the} ~~other~~ ^{the} ~~force~~ of the ventricle in the circulation are seen in the Erectile tissues

[illegible]

(1) Sides together it would shorten the chords and allow the valves to flap back, ~~was~~ but to prevent this the Chordae-tendinae are not attached to the sides of the heart ~~the~~ but to masses of muscle called columinae carneae which contract at the same time as the heart. The Blood sent through the Pulmonary artery to the lungs is there arterialized and poured back into the left auricle by the four pulmonary veins. It contracts and drives the blood through the mitral valves into the Left ventricle and it through the semilunar valves into the Aorta, and from thence it is distributed to the body at large. We see from this that the circulation is divided into two, Systemic & Pulmonary. There is a peculiarity in the Systemic circulation which perhaps is worth noticing viz the Portal circulation. The Blood from the Stomach, Intestine, Spleen, Pancreas, instead of ^{draining} returning at once ^{into} the vena cava forms a large trunk the Portal vein which ramifies through the liver and there probably some of its constituents are elaborated. It is returned from the liver by the hepatic vein and is poured into the Inf vena cava. Thus the Portal is as it were grafted onto the Systemic. Other peculiarities in the circulation are seen in the Erectile tissues

(2)

The Undoubtedly the ~~first~~ cause is the heat, it is the
compressive power by which the blood is sent

(3)

(1)

The change produced by the circulation of the blood
through the living is that the dark venous blood is
converted into the bright arterial. In this change the
venous blood gives up its carbonic acid and receives
oxygen ^{becomes arterialized} the change in the colour is probably due to
the different way in which Carbonic acid and oxygen
act upon them. Carbonic acid inflates them and so makes
them reflect the light more strongly while oxygen flattens
them. The change is well seen ^{when} by shaking up venous blood
in oxygen it immediately becomes red and by shaking
up arterial in carbonic acid it becomes dark ~~venous~~

(2)

The Undoubtedly the ~~first~~ cause is the heat, it is the
 great propulsive power by which the blood is sent
 through the different parts, but the supply is greatly
 modified by local causes. The contraction of the muscular
 walls of the arteries causes a diminution in their calibre
 and consequently a much less quantity of blood
 flows through them. The nerves which are plentifully
 supplied to the muscular coat also exert considerable
 influence. This is well seen in the act of blushing
 an emotion - sometimes pleasurable sometimes
 painful takes possession of the mind. This acts upon the
 nerves and causes them to act so much upon the
 blood vessels and consequently there is a larger supply
 of blood sent to the part which instantly flushes & becomes
 red. The opposite is sometimes seen when the nerves cause the vessels to contract
 and the force supplied by the heat has been proved to be
 sufficient to propel the blood through the capillaries and
 veins but some have supposed this to be supplemented
 by a "capillary power" which certainly manifests itself
 in some of the lower animals. Some have supposed also
 that in inspiration the blood ^{is drawn} as it were sucked up
 into the lungs. But in the veins no doubt the pressure
 separates out as crystals, when viewed under the
 microscope in a short time they begin to run together
 into masses arranged like rolls of coin. It is very much
 altered by different fluids according to their density
 water making them swell out and become round while

and paleness is
 the consequence

Very good paper J Bu
Gove's commendation:

[Faint, mostly illegible handwritten text, likely bleed-through from the reverse side of the page. The text appears to be organized into several paragraphs.]

[Handwritten signature or initials, possibly "Wm. Lloyd Garrison" or similar, written in a cursive style.]

(3)

(5)

2)

of the muscles and considerably and also their valves
 In diseased conditions these parts growing and multiplying
 rapidly require a greater amount of Pabulum than in
 a healthy condition and as this can be afforded by the
 blood alone, there is consequently a greater supply
 afforded to them

(3)

Some have regarded the red blood corpuscle
 as a cell but it can hardly be looked upon in that light
 but rather as a round mass of organized matter
 consisting of globulin and a peculiar coloring matter
 termed haematin which under some circumstances
 separates out as crystals, When viewed under the
 microscope in a short time they begin to run together
 into masses arranged like rolls of coin. It is very much
 altered by different fluids according to their density
 water making them swell out and become round while

(3)

while fluid of a greater density than themselves
 makes them flatter. They are bi-concave, thicker
 at the edges than at the middle. The Red blood corpuscle
 is undoubtly the offspring of the white, but whether the whole
 white corpuscle merges into the red or whether the red corp-
 uscle is merely the free nucleus of the white is not yet
 determined though it is probably the latter. The first Blood
 corpuscles come from the primordial cells of the "Blasto-
 dermic vesicle" of the heart. The Red Corpuscle is the life
 of the blood in it are contained most of its nutritive ^{elements}
 Its relation also to oxygen is remarkable. It has been proved
 (1) That the Blood contains a much greater quantity of
 oxygen than water could at the same temperature
 and pressure (2) that this in some way depends upon
 the Red blood corpuscle for serum is no better than water
 in containing oxygen, and it has been proved that a solution
 of haematin has a great affinity for oxygen (3) ^{In} the passage
 of certain substances, readily oxydized, ^{through} the blood such
 as pyro-gallic acid, and there not being acted on by the oxygen
 it would seem as though it was ~~not~~ free but in a state of
 are the ones that secrete the gastric juice while the one
 closer the pyloric end secrete the mucous which tubu-
 cates the stomach. Towards the pyloric end the mucous mem-
 brane is prolonged into processes ~~resembling~~ analogous to the
 villi of the Intestines but differing from them in containing

[Faint, illegible handwriting visible through the paper.]

(8)

(4)

no lacteals. The Lymphatics form plexuses in the

(3)

(7)

Chemical solution

- (4) When a piece of the mucous membrane of the stomach is examined with a watch glass numerous alveoli or depressions are seen & in these depressions the opening of four or five ducts. These ducts are prolonged downward into the mucous membrane and some of them branch spread out into two or three branches, they are the peptic follicles. They consist of a delicate basement membrane lined by a layer of columnar epithelium. These epithelium are the parts which secrete the gastric juice. It has been proved that the follicles near the cardiac extremity which are simpler in their character and not nearly so branched are the ones that secrete the gastric juice while the one closer to the pyloric end secrete the mucus which lubricates the stomach. Towards the pyloric end the mucous membrane is prolonged into processes ~~resembling~~ analogous to the villi of the Intestines but differing from them in containing

(4)

no lacteals. The Lymphatics form plexuses in the submucous coat in the entire extent of the stomach

(5)

The gastric juice is an acid fluid secreted by the peptic follicles and consists of 940 pt of water & 50 of solid matter. The chief characteristic of the gastric juice is its decided acidity which is due to the presence of hydrochloric & lactic acid. Brooke has shown that the gastric juice is stored up in the follicles in the neutral state and that it is only at the moment of its discharge that it becomes acid. His observations would lead to the conclusion that the acid is stored up separately. During the intervals of digestion the secretion which moistens the walls of the stomach is neutral or even alkaline. That the quantity of gastric juice secreted is in direct relation to the wants of the system and not to the amount of food ingested is a principle of the highest importance.

only and exert no solvent action upon either the saccharine oleaginous or farinaceous constituents of the food although the change in the farinaceous constituents ^{which commences in the mouth} is usually continued in the stomach &c.

181
The first of these is the...
the second is the...

182
The first of these is the...
the second is the...
the third is the...
the fourth is the...
the fifth is the...
the sixth is the...
the seventh is the...
the eighth is the...
the ninth is the...
the tenth is the...

183
The first of these is the...
the second is the...
the third is the...
the fourth is the...
the fifth is the...
the sixth is the...
the seventh is the...
the eighth is the...
the ninth is the...
the tenth is the...

(10)

presence of

(9)

(4) Our knowledge of

The nature and process of gastric digestion has been
much advanced of late and we are now in a position
to state with considerable certainty what it is, what
is not the province of the gastric juice to effect.
There can be no doubt that the process is one of chemical
solution and that the vital attributes of the stomach are
only exercised in the preparation of the solvent and in
the performance of those movements necessary for the
act. It is not true as was formerly supposed that the
gastric juice acts upon all the constituents of the
food the mistake probably arose from the solution
which they undergo, all being contained in a large bolus
to which the name chyme has been given. All
the more recent and accurate experiments of those
who have studied the chemistry of digestion lead to
the fact the gastric juice acts upon a gelatinous substance
only and exerts no solvent action upon either the
saccharine oleaginous or farinaceous constituents
of the food although the change in the farinaceous
constituents ^{which commences in the mouth} is usually continued in the stomach &c.

14

no the other. The first part of the paper is devoted to a discussion of the

(1)

(2) The first part of the paper is devoted to a discussion of the

the second part of the paper is devoted to a discussion of the

the third part of the paper is devoted to a discussion of the

the fourth part of the paper is devoted to a discussion of the

the fifth part of the paper is devoted to a discussion of the

the sixth part of the paper is devoted to a discussion of the

the seventh part of the paper is devoted to a discussion of the

the eighth part of the paper is devoted to a discussion of the

the ninth part of the paper is devoted to a discussion of the

the tenth part of the paper is devoted to a discussion of the

the eleventh part of the paper is devoted to a discussion of the

the twelfth part of the paper is devoted to a discussion of the

the thirteenth part of the paper is devoted to a discussion of the

the fourteenth part of the paper is devoted to a discussion of the

the fifteenth part of the paper is devoted to a discussion of the

the sixteenth part of the paper is devoted to a discussion of the

the seventeenth part of the paper is devoted to a discussion of the

the eighteenth part of the paper is devoted to a discussion of the

the nineteenth part of the paper is devoted to a discussion of the

the twentieth part of the paper is devoted to a discussion of the

the twenty-first part of the paper is devoted to a discussion of the

the twenty-second part of the paper is devoted to a discussion of the

57/
 continuance is due to the ^{presence of} saliva present for it is
 completely prevented when by lying the accompanys
 the saliva is prevented from coming down. The sacch-
 arine constituents being readily soluble in water do not
 require the action of the gastric juice any more than for
 the solution of their membrane whereby they are set
 free, no change whatever occurs in the oleaginous
 constituents except perhaps a finer division, according
 to Meissner two new substances are found named
 Peptone and Parapeptone whatever may have
 been the albuminous food digested, but as neither of
 these new substances are precipitable by heat it is
 evident that a process of chemical transformation
 as well as of solution has taken place, but as
 no peptones are found in the blood but only albumen
 it is evident that it is only for the purpose of absorption
 Always more Peptone is found than Parapeptone
 Certain accessory conditions are necessary for this process
 by a heat from 20° to 100° being the process being retarded

The above more or less
 of the first of the
 which are in the
 and the second of the

(12)

(6)

(11)

(5)

as there is a diminution of the thermometer below the standard and an entire stoppage at the ordinary temperature of the air, it is renewed however upon and increase of heat. A certain amount of motion is also necessary. This does not act as was formerly supposed by ~~triturating~~ trituration for food placed in iron balls perforated with holes is well digested.

Food is also digested out of the body if the gastric juice is kept at ^{a temperature} ~~about~~ of 98°. The products of gastric digestion which pass through the pylorus have received the name of chyme. It contains much agotized matter which is still undigested. The solution of this is probably effected by the "Luccus Entencus"

(12)

(6)

The mucous membrane lines the mouth, nose, trachea, pharynx & esophagus, stomach & intestinal tubes. It is continuous upon the lips with the skin. It consists of a delicate basement membrane lined upon its surface with epithelial cells; the nature of which vary in different parts of the body. On the tongue, lips & cheeks it is of the squamous variety. In the trachea, part of the pharynx, vagina & some other parts it is ciliated. In the intestinal tube is cylindrical.

The office of the mucous membrane varies in different parts. In some parts it secretes, as the buccal mucous membrane. It furnishes important constituents of fluids also in the intestinal tract. It both serves for the reception of the various gland structures embedded in it, but it likewise aids in secreting these fluids. In the small intestine more particularly, by its protrusion into villi. It materially aids in the reception in them of the capillary network and thus materially aids in the process of absorption. In the ciliated epithelium we see a wonderful provision for the renewal of mucous from place by the constant current which is established by their perpetual movement, and thus the current is always towards the external opening. In the tubes enter the circular plexus. It is made in the Malpighian tufts = afferent vessel. In it, it forms a capillary plexus through which the liquid portions of the urine are absorbed.

Physiology

1st year

W. J. L. L.

1848

My paper at the

1st year examination

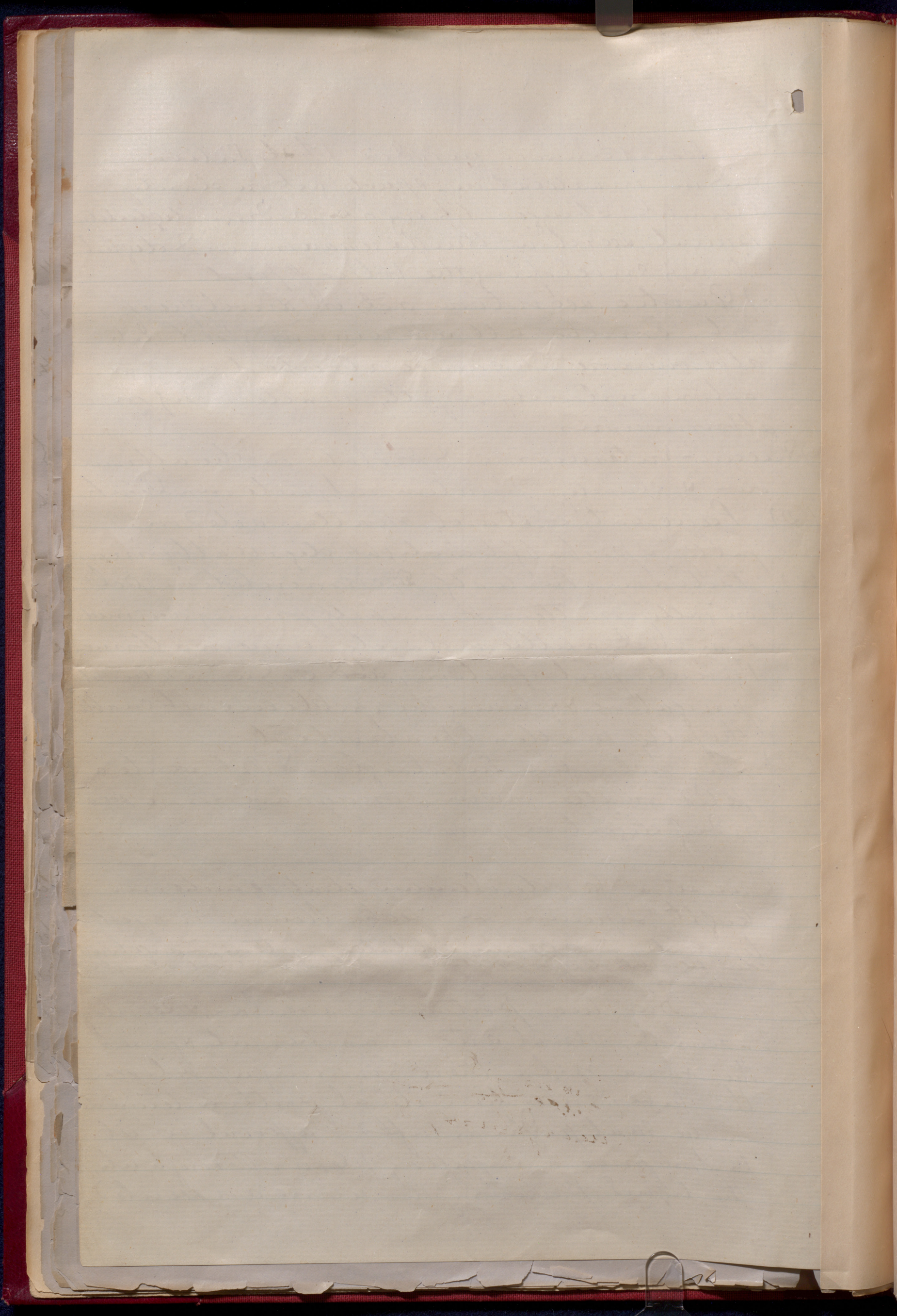
1st year 1st year

W. J. L.

- Secretion are in order 1st Saliva.
aid in mastication, speech, act on starchy
element changes it to sugar, aid in deglutition.
Buccal secretion thick & viscous aid deglutition
& enveloping the bolus of food
- (b) Gastric secretion, acts on envelopes of
fat, converts all albuminous food into
albuminose which can be absorbed, has no
action on starchy or fatty matters only on
albuminous
- (c) Succus Entericus, acts probably on the albumin
ous & starchy, function not quite made out
- (d) Pancreatic starch matters acted on,
fatty & probably to a slight degree albuminous
- (e) Biliary, Partially ~~excretory~~ excretory, acts
on fatty matters principally forming an emul-
sion, acts a little on starchy, none on albumen.
Prevents putrefaction, and acts as a natural
purgative & by lining the epithelial coat enables
the fatty matters to be absorbed.
- (f) Lymphatic, tubular gland of it, secrete a
fatty matter, caecum may have some sec-
ondary digestive power

Consists of (a) duodenum about 10 inches in
length, Jejunum 4-5 feet. Ileum 5-6 feet
terminally in caecum, adulated portion. Large lower
colon, sigmoid flexure & rectum, small about 3 feet in length
terminally in the anus

II Kidney two portions, vascular, & secretory
vascular. renal artery branches into & forms
the vasa recta there running up between
the tubes enter the cortical portion. terminate
in the Malpighian tufts = afferent vessel
in it, it forms a capillary plexus through which
the liquid portion of the urine are excreted



carries the lymph as an afferent vessel when
 close to when the afferent enters, then breaks
 up into a venous plexus about the tubes
 forming the "portal system" of the kidney, & from
 this system by means of the epithelium of the
 convoluted tubes the various salts of the
 urine are eliminated & pass down the
 convoluted straight tube to enter the
 pelvis of the organ

Specific gravity varies from 1015 in ^{summer} ~~winter~~
 to 1020 in winter, but is both increased & dimin-
 ished by disease.

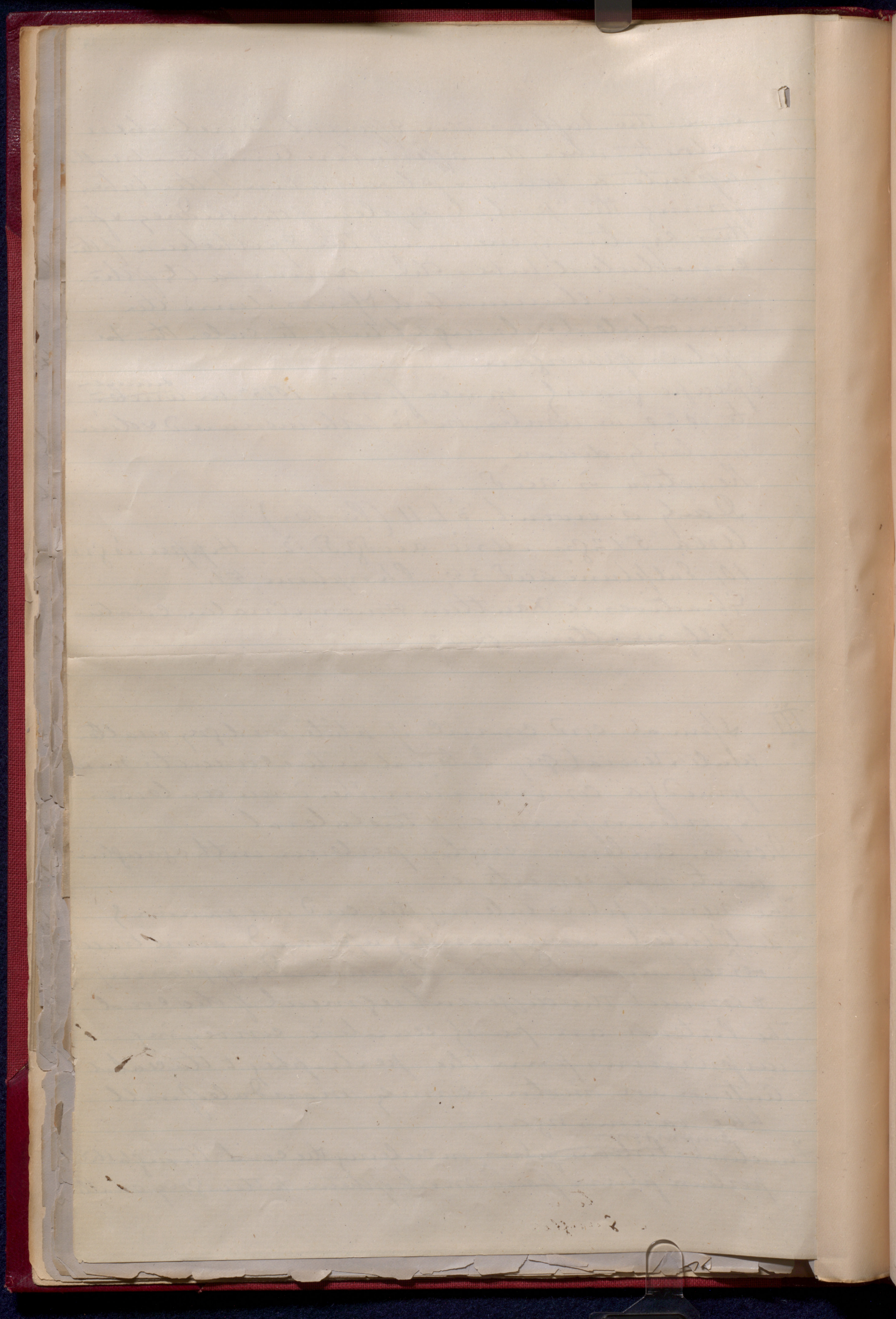
Reaction is acid

50 Daily amount 3 L 11 (Parker).
 Urea 512 grs. Uric acid 8.8, 12. Hippuric grs
 10, Sulphuric acid 35; Phosphoric 51.
 Extractives, cc Xanthin Mucous, Cratin. Cratin
 fully matter, = grs 40

III Spinal cord consists of white and grey matter.
 white external, grey internal in two crescentic nar-
 rowed by a commissure. There is an anterior
 & posterior fissure, & two lateral
 Nerves. Anterior motor; posterior with a ganglion
 on its root, sensitive

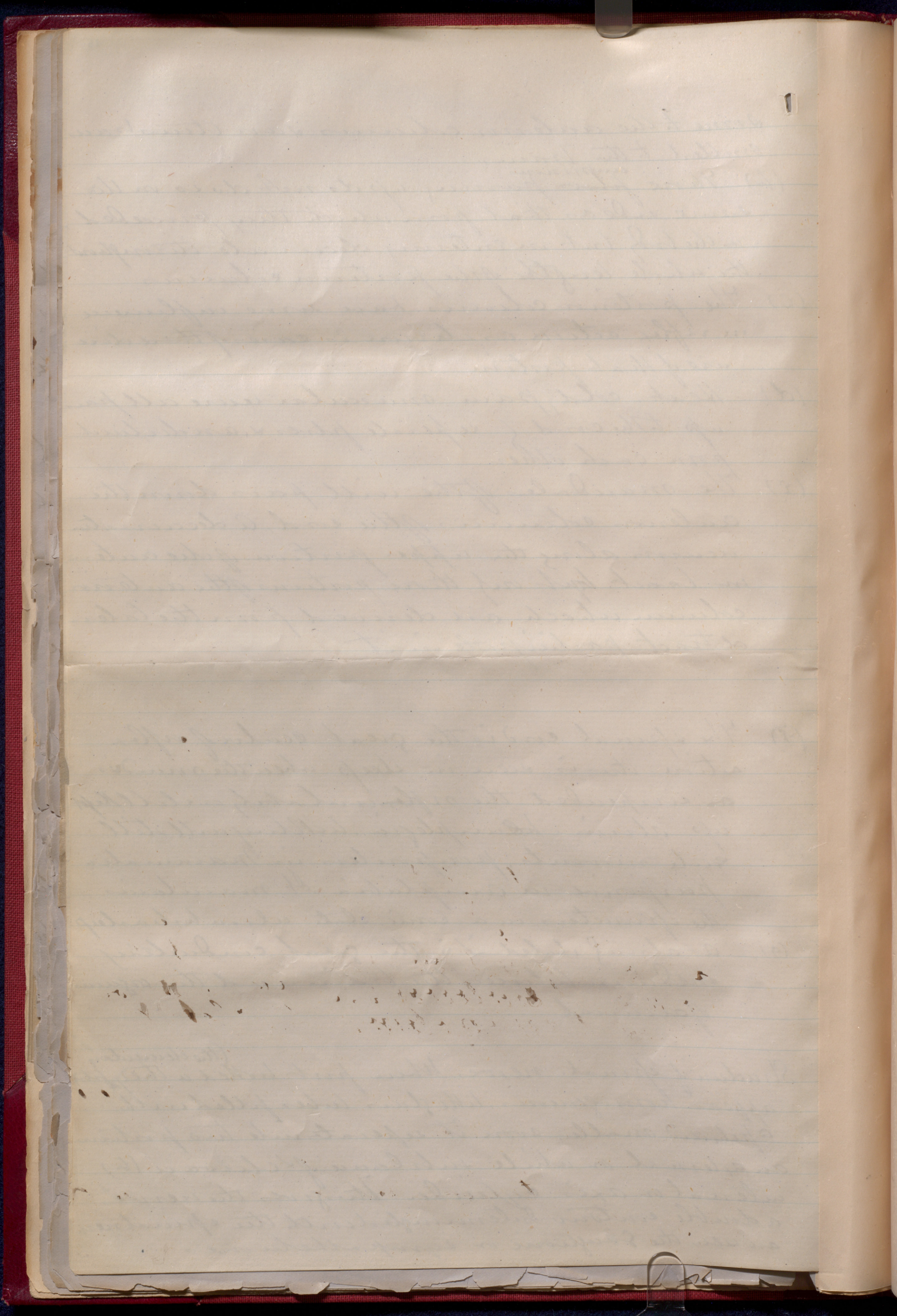
The nerves plus entering the cord are variously
 distributed. some passing upward, some trans-
 versely inward, other downward, appearing
 to connect the different segments of the cord
 The Posterior are purely sensitive conveying
 impressions from the periphery to the centre
 Anterior are motor & convey commands from
 the various organs

7. ^{Impregnations} ~~Impregnations~~ ^{Impregnations} ~~Impregnations~~ on entering the cord through the
 posterior plus pass most of them to the grey matter



- some to the anterior columns and thus have
 milled to the brain.
- (b) Those ^{ascending} ~~fibres~~ passing up do not do so on the
 same side as that from which they proceeded
 in the body but in entering decussate throughout
 the whole length of the posterior columns
- (c) The posterior columns have some influence
 in reflex action as shown in cases of ~~these~~ ^{these} ~~die~~
 are of that portion
- (d) Heat, cold, pain muscular sense all pass
 up to the cord & separate fibres & are distinct
 from each other
- (e) The mandibles of the will pass down the
 anterior columns of the cord, a decussation
 occurs along the upper portion of the ante-
 rior tract but only those portions of the anterior
 column which are derived from the later-
 al tract participate in it
- (f) The spinal cord is the great center of reflex
 action this is seen in sleep when the mind is
 as suspended the reflex irritability is still kept
 up, also in hemiplegia, hiccough will still
 & all movements, perispermia in Mammalia
 perispermia in amphibia. It maintains
 the spincters in a tonic state also while asleep
- (g) as already stated it is the great conducting
 medium between the brain and the organs
 of animal

Structure of spinal nerves. When first looked at ^(the elementary) they ^{seem} ~~appear~~
 appear homogeneous, like glass tubes filled with
 a pulsed matter, soon it separates into two portions
 an external or white substance of Schwann (b)
 internal or axis cylinder. It gives the nerve
 a double contour. Intermingled with the spinal nerves
 are seen the ganglionic or sympathetic ones



14

Ovum in passing down the Fallopian tube is nourished by its secretion & an albuminous layer is formed about it, the villi of the chorion begin to grow & serve some purpose in absorption but have no vessels as yet.

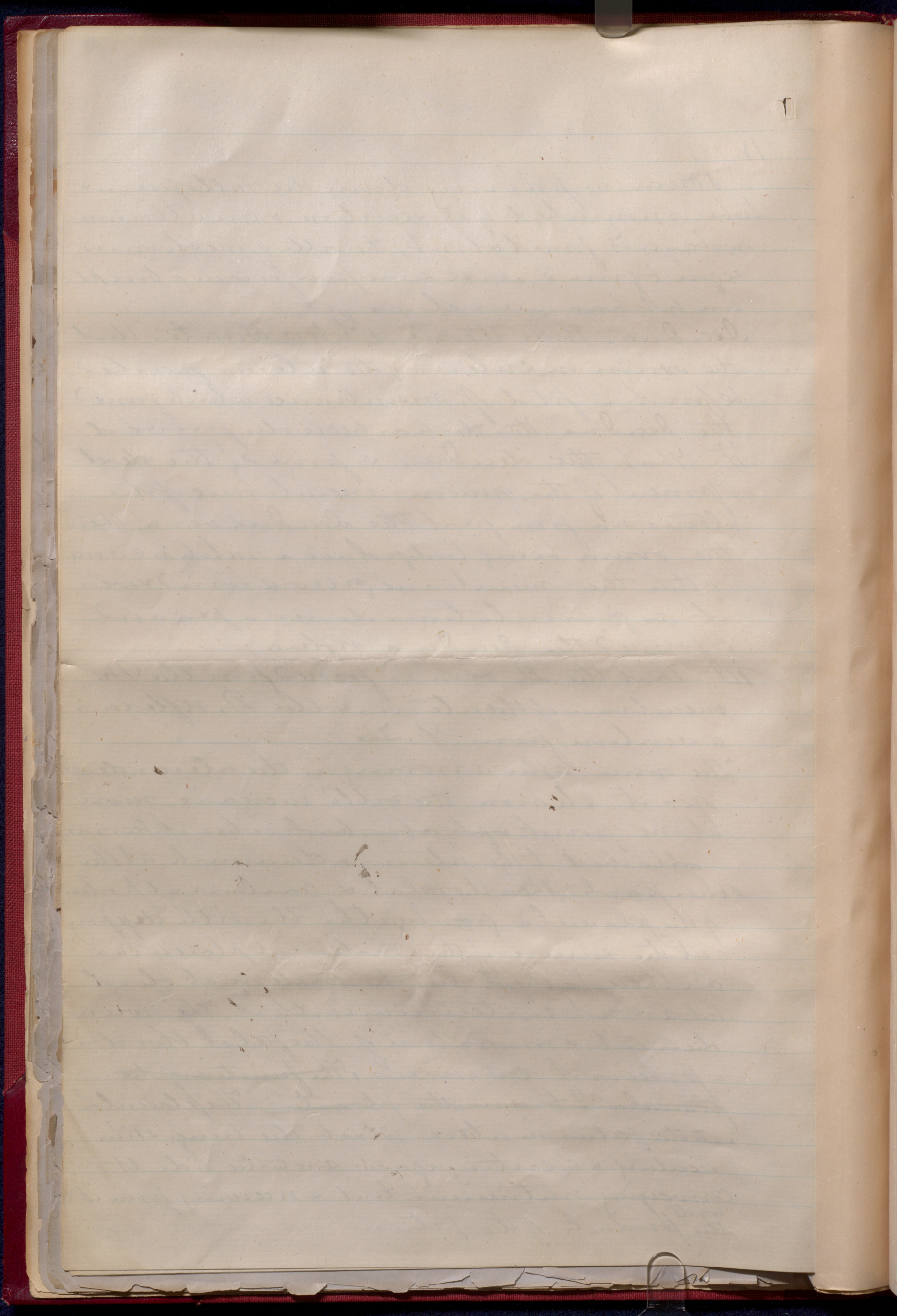
Decidua. Three theories: I. John Hunter that the ovum on entering the uterus pushed before it a fold of membrane which formed the decidua that has been disproved.

II That the decidua is formed of the development of the mucous membrane of the uterus when first the decidua vera, then the ovum being lodged in a niche in cervix of the membrane grew around & over it as granulations do over a pea and so formed the decidua reflexa.

III That the D. vera is formed from the M. membran of the uterus & the D. reflexa is a secretion from it. ~~The~~

The ovum after arriving in the uterus develops its chorion. the villi increase, move at one point & get absorbed when it becomes attached to the uterus & diminish at the other parts. Then the fetal & maternal portions of the placenta grow together the villi dipping at the surface of the maternal placenta & are then bathed in the maternal blood but are not continuous with it. The nourishment & movement of the fetal blood is a process of osmosis. ~~The function of the placenta is to serve the placenta~~ The placenta is to the fetus in utero what the lung, skin, rectum & excretory organs are to the adult conveying nutriment to it & removing from it ^{waste} the products of the fetus.

50



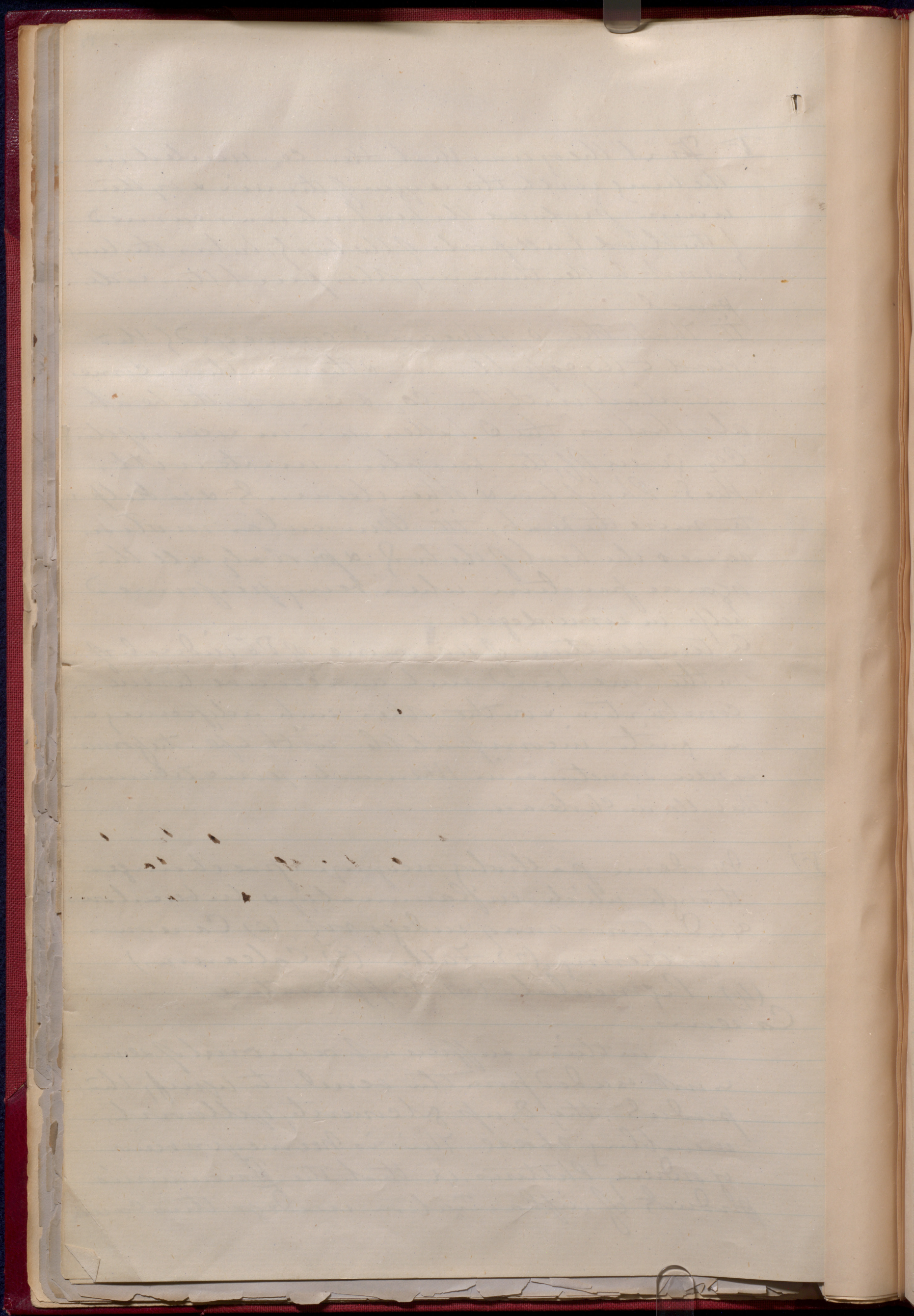
17
I First theory was that the CO_2 united in the lung with the oxygen of the air & by their union produced the heat which was carried by the blood to all parts of the body, but as this was not hotter than any other part this is disproved.

50 II That the O of the air is conveyed by the blood to the capillaries & then in them comes in contact with the CO_2 & causes the heat also that on the O taken in is in excess of the CO_2 given off, the surplus unites with the S. Phosphorus & other elements & so helps to raise the heat, III Muscular motion raises the heat of the body & probably all the organic functions when being performed help in some degree.

A temperature of 110° or one of 106° indicating in the one hand such an excessive tissue combustion & on the other such a deficiency as is quite incompatible with life, the former is seen sometimes in Rheumatism, peritonitis & tetanus. The latter in Cholera &c.

VI Modern pathology recognizes five changes through which inflammatory & tuberculous exudations may undergo, viz. (1) Caseous or withering, (2) Fatty (3) Calcareous (4) Pigmentary (5) Suppurative Caseous.

in this a sufficient amount of serum is not exuded from the vessels to keep the products, they & up & concrete, yellowish, crumbling cheese. This is Virchow's view of ordinary Phthisis, i.e. that the Pneumonia's products of inflammation undergo this caseous



carcous transformation wh = yellow tubercle
of the older authors

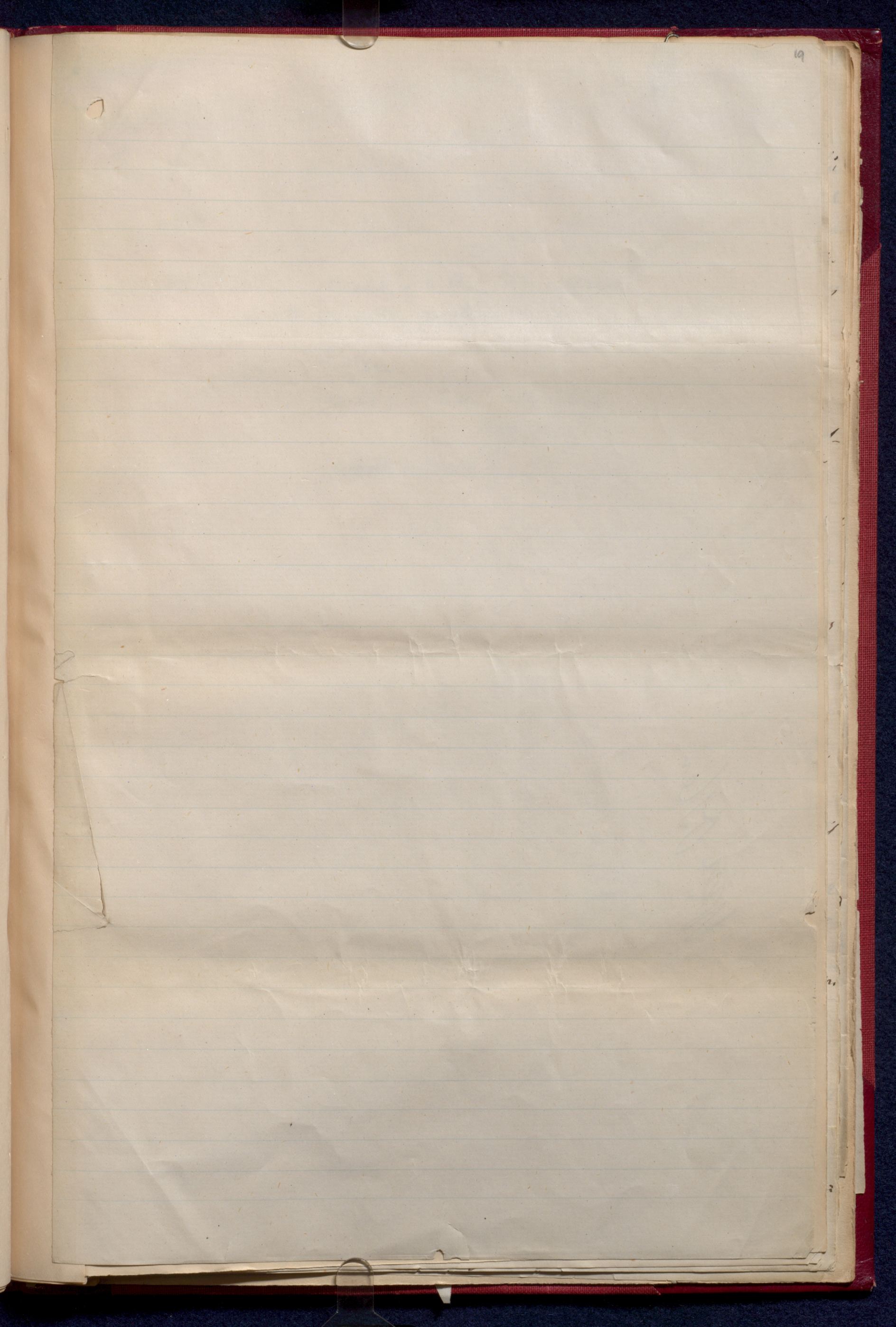
Fatty. all tissues when growing old tend to deposit
oily fatty, moted products follow the same rule
a ~~weakened~~ ~~hardening~~ get fatty intestine. The heart
in a weakened system becomes fatty. Fat is found
in tubercle in small amount

Calcareous. In this animal matter, an abro
and calcareous matter deposited in their
place. This is seen in the small chalky
concretion melanth in the lung, seen in
degenerating arteries from atheroma

25 Pigmental. This is seen more in the lower animal
than in man. Hemorrhage in the deposit
in from the blood of its coloring matter in
a somewhat altered state. This is seen in the
lung in health & disease especially chronic
inflammation. Melan melanotic cancer.
Suppurative

This out takes place when the prod-
ucts are want & affects the elements of the
tissues, wh in an inflamed part have
proliferated. It reduces the element types
Epithelium may undergo this change. degenerat-
ing into pus. The white blood cells, wh play such
an important part in modern inflammation
may proliferate & form pus also

[Faint, illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]



Wm. Olen

Aug. 1862

Ter. Univ.

20
Originals of William Osler's answers
to examination questions (cont'd)

[3]

medicine

endorsed in Sir William Osler's hand
"Final paper"

[probably at McGill University in 1872]

If W.O.'s endorsement on the opposite
page, in his later hand, "Tor. Univ.",
is correct, this would also appear to be
a Toronto paper. cont.

FINAL EXAMINATION PAPER IN MEDICINE, 1872

T

Typhus
Initial symptoms more
rapid. headache & rigor more
severe

Countenance dull, lethargic
ear, slurred

Delirium early quiet
lactum

Pulse quicker, sooner
fable & heart sound
numble each other

Cardiovascular symptoms
not so marked, tendency
towards the head

No abdominal tenderness
gurgling, borborusii &c.
Stools dark, offensive & emulsion
of mud acid reaction, no flocculi

Temperature rises suddenly
to 104 then goes higher & continues
high, not oscillation in third week
defervescence rapid

Spurularis rare.
" " "

Last from five weeks

Typhoid
Slower, headache
& rigor less marked

Countenance bright
cheeks flushed

Delirium later
2 week. more active

Rice versa

As in Typhoid
stools, often yellow
separable into two
portions have flocculi

Rises more gradually
1 1/2° per day, has a
clay of itaris, oscill
ation in 3rd week of
4°, decline slow

Common

Uncertain may
be longer

Eruption out on 5-7
day mulberry coloured
all come out in one crop
on two stages 1st elevated
& diffused 2nd deeper & less
elevated 3rd Pilechic

On 7-12 day in many
crops, lasting 2-3 days
sore coloured, margins defined
fade on pressure, Pilechic
rare, Not seen after
death, In typhus are

Death from Coma &
the brain

From congestion of
lungs, haemorrhage of
lungs & perforation

Epidemic

Endemic

No special lesion meninges
internal congestion

Papular glands, &
internal congestion

all ages attacked

Varies from 50 seldom
death after 40

Recovery rapid

Slow tend to relapse

30

11 Peroration motion & intellectual functions
may be disturbed, as shown by the formation
mumbling, tingling, irregular motion, trid-
ing, drowsy, untidy, unpaired memory
An aura may precede, from any part of the
periphery as a creeping sensation, toward the
brain, or the epileptic cry is heard. He falls in
to a fit, in which there is convulsion circumscribed
irregular twitching of muscle of face & arms first, then
general spasms "tonic" in character. Face cyan-
osed, blue, respiration impeded, pupils dilated
In 2nd spasm eyes a little respira-
tion not so impeded face brightens, pupils con-
tract. Spasms clonic in character, in 3rd spasm

depressions, He wakes up for this time about
 & falls into a state of coma (3rd stage). In this
 breathing is impeded. face clean, irregular
 movements continue, pupil dilated & contracted
 after this he wakes up feeling sore & knows nothing
 of what has happened

Epilepsy

Seen in Epilepsy

None in it. has had
 previous fit, loss of
 consciousness profound

Hysterical convulsion.

Flour, chronic spasms
 through, last a longer time
 more loses consciousness
 ending, a loud scream with
 bring her to her senses. If fall
 in fire get herself out of fit

Apoplexy

1. doesn't turn pale
 2. no aura, 3. cry, 4. in the
 stages of Epilepsy. Preceded
 by signs of degeneration
 of blood vessel, long has
 kidney disease &c.
 7 In the fit, consciousness
 may not be lost. Is
 8 some reflex action

Epilepsy

Stages. 1. once, clonic
 spasm, aura,
 complete loss of consciousness,
 day after he
 falls, fit shorter

Chief remedies are. Zinc oxide, $\frac{1}{2}$ - 1 gr. Silver (or ch) $\frac{1}{4}$ - $\frac{1}{2}$. Arsenic. Fowler's solution $\frac{1}{2}$ - $\frac{1}{4}$ oz. Salts of
 Fe in arsenic. Belladonna 1 - 10 grs & b. Valerian
 3p (last). Camphor. 1 gr. Succus Corii 3ii
 Strychnia $\frac{1}{32}$ gr. Brucia $\frac{1}{12}$. K I $\frac{1}{2}$ - $\frac{1}{4}$ gr. K K * -
 xxx. Br At $\frac{1}{4}$ X - XX.

Brown - Second formula

K Br	---	3p
K I	---	3T
Br At	---	3ii
Pot Bicard	---	3ii
Ag	---	3vi

V

Obstructive, within the ducts; Catarrh, Catarrh
~~forms~~

II Empty sac, Inspection. Chest looks full
² powerful elevation movement but little expansion
⁴ may be barrel shaped, ⁵ intercostal space may
 be flat or protruded. Auscultation, ⁷ feeble
 respiration sounds. ⁸ Expiration 3-4 as long
 as inspiration. May be a few bronchial rales
 Percussion, ¹⁰ over resonant, ¹¹ limits of lung
 increased & cannot be diminished & ¹² per-
 in. Cardiac dullness diminished, ¹⁴ liver
 pushed down, ¹⁵ Clear note low behind
 8th -

Pleural Effusion

¹ Slight, Inspection, deficient
² elevation on affected side... ³ Respiration weak. May
 hear a friction rub. ⁴ Effusion slight dullness in
 a pleural pleural slight dullness from the effusion
 Chest half full. Then. On inspection, side molecules
 or near so. Percussion dull note over the fluid, get
 clearer you ascend. Vocal fremitus ^{diminished}
 Bronchophony diminished. May have Egophony
 In full chest, elevation of position alters the limit
 of dullness. In full chest, wooden dullness
 all over, perhaps a tubular note ⁱⁿ front below
 the clavicle when the lung is compressed ap-
 against the side of the vertebrae. Side enlarged
 intercostal spaces bulge, viscera displaced down-
 wards, Respiration nil, Vocal fremitus
 & Bronchophony nil

Hepatisation 1st stage. may be slight dullness
 respiration weak, fine crepitant rale at end
 of inspiration. 2nd stage. wooden dullness
 flowing matting. Bronchophony & vocal fremitus
 increased, Respiration ^{increased} weak when lung not

affected. ^{sometimes} Side, ~~motor~~ ^{motor} ~~and~~ 3rd stage
Revolution; dullness diminishes. and expir-
ation is heard, gradually the trachea gets normal
may have in its course Bronchial rules

35



Mild cases need but little, & the plan is & follows the same, ordinary care of much pain in the side leech or cup, apply anodyne formulation, Put on low diet & give arsenical sedatives as Ant. $\frac{1}{8}$ - $\frac{1}{4}$ grs. & use acetic 1 gr. 4 or 5 times or Tinct Digital $\frac{1}{2}$ - $\frac{1}{4}$ m, with an alkaline carbonate and a little Opium, keeps bowels open.

If it goes on to the full, the chest, then alter to
Calomel 1 gr ten die, 120 & gr, act on bowels
with Jalap (Pul Co), Give Addison's Pill Squills 1 gr
Dysphagia 1 gr. Calomel 1 gr to act on Kidney, Continue
diaphoretic, If then means fail, stop them for

a while stay a little more, good food. H. & C. &
then after health restored, return to attention.

subinfantile, in the stage travelling
is of good. If it goes on to Impyria, the

treatment must be supporting, good diet
 &c. St. Mark's; Hypophosphites. Not over
 jump non. of tendency tubercles may exude
 them in the bowels. Of great dyspnea come

on, (or even if no dyspnea) the patient getting weak,
and after you have tried fairly the means for
tapping the chest, this may be done even in some
stage & to advantage - fair but not the latest improve-

Croup. Put into a warm bath at once 98°-100° & keep
in till weak, or pack in wet sheet & blanket.
Give emetic. Ipecac (vini) to elude under 6 months
3ss 2 or 20 till vomel over 6 months 1-2 grs
3i - 3ii. If these fail, Squills, Cupru Sulphur,
mustard, Rumen Carb of wash
Cold compresses important & needful

26

Such in early stage. If signs of asphyxia ^{seems} come
 on put in hot bath & pour cold water on the head
 Locally. scrub out the throat, with any nit v-xgr
 to 3 of mild xxx - xlg if severe. Remove pellicle
 Tann. good flow in, or as solution. Tinct ferri. per-
 chloridi. or Mucal acid & honey. If all these
 fail. Tracheotomy, & do not wait too long. for the
 child's chance

30

VT

Pericardial

1 Localized sedum. or nec
 transmilled up the arteries
 Systolic. 2 Change into presu
 antly. An ^{injection} ~~soft~~ ^{transmilled} ~~transmilled~~
 4 May be increased by pressure

Endocardial

1 Transmilled up
 aorta. 2 round tricusula
 3 Inside. 4 Irrigating. 5 Systolic
 and diastolic. 6 Not
 likely to change into. Cannot
 increase by pressure

Dangers are 1 dilatation & 2 hypertrophy of cham-
 bers, 3 Congestion of lungs, 4 Intussusception, 5 venous
 obstruction, 6 serous effusion, both anasarca &
 ascites, 7 Congestion of liver, resulting in phos disease
 or jaundice. 8 Calanch of stomach. 9 Intestines. 10 Interference
 with function of Kidney & its consequences

45

I

Obstructive, Within ducts. 1 Calanch. 2 Gall stones. 3 Hydatid
 4 cancer. 5 worms. Outside. 6 Anchored liver. 7 Cancer of
 pancreas. 8 liver. 9 pylorus. all tumors near of the abd.
 10 Hydatid. 11 Cancerous or any kind of fluid pressing on the
 ducts.

Non obstructive, Fever. (Eruptive. Malarial)
 Poisons.

Symptoms, in those of an acute taking attack
 Febrile of lancetate, indigestion, sense of fullness in liver
 and soon signs of Jaundice. Slaves blood first
 then serous & serous fluid & lastly the skin

Skin is deemed for a light color to a yellowish black.
 May be nausea & vomiting. emetiputen in deam-
 loca. Stools usually clay colored, and reaction
 much put in them. If it continues, brain is affected
 get lethargic during, apathetic. Heat & pulse get
 weak. ~~these~~ Kidneys inflamed with, seems to stop
 the elimination of urea & this acid in the brain
 disorder. Convulsions may occur or coma sets
 in

2/2
2/2
2/2

Wm. Oler

20
35
30
-45
15
15

170

Frederick

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

280 (10/1)

Trinity College

First Year Examination. June 1888

Euclid.

- x 1. Define an isosceles triangle, and a right angled triangle.
Prove that every right angled triangle may be divided into two isosceles triangles.
- x 2. The greater side of every triangle is opposite to the greater angle (I. 18)
The greatest side of a given quadrilateral is opposite to the least;
prove that either of the angles adjacent to the least side is greater than the opposite angle.
- x 3. If two triangles have two sides of the one equal to two sides of the other, each to each, but the angle contained by the two sides of one of them greater than the angle contained by the two sides equal to them of the other, the base of that which has the greater angle shall be greater than the base of the other. (I. 24)
That diagonal ^{also} of a parallelogram which passes through the greater angle is ~~greater~~ ^{less} than the other diagonal.
4. If a straight line be divided into any two parts, the squares on the whole line, and on one of the parts, are equal to twice the rectangle contained by the whole and that part, together with the square on the other part. (II. 7)

* 5. If in a circle two straight-lines cut one another, which do not both pass through the centre, they do not bisect each other (III. 4).

* 6. The angles in the same segment of a circle are equal to one another (III. 21).

The perpendiculars AD , BE , CF from the angles of a triangle on the opposite sides meet in a point P ; if N be the middle point of CP , prove that the angle DNE is double the angle C .

* 7. The angle in a segment of a circle is greater than, equal to, or less than a right angle, according as the segment is less than, equal to, or greater than a semicircle.

The sides AB , AC of a given triangle are bisected in E , F . AD is perpendicular to the base BC ; prove that if ED , DF be joined, the angle FDE is equal to the angle BAC , and the area of the quadrilateral $AEDF$ is equal to one half of the triangle ABC .

* 8. In a given circle inscribe a triangle equiangular to a given tri-
-angle (IV. 2).

Also inscribe such a triangle with the further condition that one of its sides shall be parallel to a given straight line.

* 9. Describe an isosceles triangle having each of the angles at the base double the vertical angle (IV. 10)

Show that the smaller of the two circles used in the construction is equal to the circle described round the required triangle.

Turn over

June 1868

A. Osler

Coll. 587m

7639

X 10 If the vertical angle of a triangle be bisected by a st. line which also cuts the base, the segments of the base shall have the same ratio to one another which the other sides of the triangle have. (VI. 3)

Find a point such that the st. lines joining it with two given pts shall be st. right angles to each other, and shall also be as a given ratio.

11. Describe a rectilinear figure which shall be equal to one given rectilinear figure, and similar to another (VI. 25).

12. Draw a st. line perpendicular to a given plane from a given point without it. (XI. 11).

13. If a solid angle be contained by three plane angles, they are together less than four right angles. (XI. 21).

well make us exclaim with the Poet-

Osler's Thesis, 1872, all that has survived of it --
3 leaves of a draft of the introd., taken fr. the Cushing
material, #8303, for insertion here as foll. 28a-c in
#7639. The passages pencilled by Cushing he printed in
the Life, #7746, i, p.85. W.W.F., 1940.

"strings"

examine

such changes

have gone on in them as to render existence imp-

The Introduction to
W.F.'s unpublished
thesis is 1892
J.C.

In that Trinity of being - of body mind and soul -
which so marvellously make up the Man, each one
has its own special ills and diseases. With the first
of these - the body - have we here anything to do, leaving
the second to be attended to by that class of men
whose duty it is, "to minister to minds diseased"
i.e. the Psychologists, while those of the third class
beyond a Physician's skill seek? and elsewhere
Few indeed are permitted to end their days in
a natural manner, by a gradual decline of the
vital powers, till that point reached, where
nutrition failing to supply the fuel necessary
to keep the lamp of life alight; leaves decay to drag
back the fabric to the dust. ⁺⁺⁺More frequently
perverisions of nutrition, induced as well by the
countless external agencies, hostile to man's wel-
fare; as by those more subtle influences at work
in his organism; bring about those changes
which we recognize as disease. Too often is it the
case, that by unnatural modes of living, or excesses
in things good in themselves, men become not
only the Architects but also the builders of that
portal through which they eventually pass
The number of avenues through which death
may reach us, the natural frailty of our bodies
the delicate and intricate machinery which
maintains us in a condition of health may

1052/1

1/2

1052/1

1052/1

1052/1

1052/1

1052/1

1052/1

1052/1

1052/1

1052/1

1052/1

280 (12/1)
27
well make us exclaim with the Poet-

"Strange that a harp of thousand strings"
Should keep in tune so long"

To investigate the causes of death, to examine carefully the condition of organs, after such changes have gone on in them as to render existence impossible and to apply such knowledge to the prevention and treatment of disease, is one of the highest objects of the Physician. But to interpret aright the pathological changes, and to appreciate as well the coarser lesions observed by the natural senses, as those more delicate deviations from the standard of health revealed to us by the Microscope, requires qualities such as few possess. In the first place an accurate knowledge of the condition of organs in a healthy state is indispensable. secondly such skill in manipulation as will enable him to prepare specimens suitable for the finer means of research and thirdly a well trained intellect, capable of reasoning on the facts adduced and drawing conclusions from them. To such a standard of excellence, it is obviously impossible for a student to attain. Well for him if in his student life he lay the foundation by habits of careful observation, for a superstructure to be erected as years roll on and experience widens. Being fortunate enough to possess that amount

Blank lined page with a vertical blue margin line on the left side. The page is slightly aged and shows some wear along the edges.

Blank lined page with a vertical blue margin line on the left side. The page is slightly aged and shows some wear along the edges.

280 (1857)
27

of Microscopical skill necessary for the preparation of specimens and having a predilection for Pathological Anatomy. I have at the suggestion of a kind friend undertaken to record the results of twenty post-mortems for my graduation Thesis and prepare a few specimens to illustrate it. I naturally felt some diffidence in undertaking this, for to record aright what one sees is itself no easy task and one that requires as its basis some knowledge of the distinctions between diseased and healthy states; otherwise mistakes will arise, important lesions which an expert would not think of passing over, a mere ~~type~~ will throw aside in ignorance. This I fear may have happened in the present instance & renders the record somewhat imperfect but in every case in which it was possible a doubtful lesion was submitted to one of the attending Physicians. Another source of imperfection, though not as serious - for it is a record of post mortems not of cases - is the scanty history afforded in many of the cases; in fact this often proved the most arduous part of the task as but little was taken before death. Other imperfections will be noticed as in some cases where the brain unavoidably remained unexamined. ^{as} For the specimens they must speak for themselves. I could have wished they were better & more in number, but my time and appliances would not allow it.

My thanks are
Yrs
A. O.

My thanks are due
Y^{rs}.

Indro-Indro

add by p.c. 30.V.42.

Ref. from letter to
The Exams. M.B. when it
came back from M.B.

University of Toronto
FACULTY OF MEDICINE
TORONTO 5, CANADA

11 Spadina Road

May 19. 42

DEPARTMENT OF
HISTORY OF MEDICINE

Dear Dr. Francis,

MacDonnell advises me he will publish in
the CMA Journal the paper I read at W.P.G.
last June on sales class at the Toronto School of
Medicine.

He wants I send you photostat of the M.B. which
formed the basis of my inquiry into the of cancer
of his classmates. This for your collection.

The article will follow, of course, when published.

Sorry you could not make the annual meeting
at the Chalfonts - the attendance & interest was
both good. Drake gave us an excellent paper
on Rowlandson's medical cartoons - at the dinner, vice
Hugh Young - ended with T. 101 - Involation - fishing
for Friday with his shirt off - hot sun! But Hugh
appeared next morning & gave us a good talk.

Kind regards

John H. Green

Toronto School of Medicine 1869-70

Rolls Name *Ames of Hist. & Anat. Pathology* *Practical Anatomy* *Lectures* *Dis.*

287	Care N. H.	✓	44	44		44		
289	Mitcalfe W. G.	✓	90	90	8	82		
291	Robinson Jonathan		90	90	8	82		
293	Hamilton R.	✓	54	49	8	41	5	Due
222	Henning R.	✓	36	36		36		
188	Moore C. G.	✓	44	44		44		
241	Jacks G. H.	✓	78	78	8	70		Due
295	Whiteman R.	✓	42	42	8	34		45
116	Rapnolds J. R.		36	36		36		
247	Zimmerman R.	✓	78	78	8	70		
245	McBlane W.	✓	90	90	8	82		
83	Burt							
259	Raterson C. A.	✓	78	20	206	179458		
297	Harwell G. W. H.	✓	66	66	8	58		
299	Morrow L.	✓	54	54	8	46		45
301	Peterson H.	✓	54	54	8	46		205
179	Lindsay W. E.	✓	36	36		36		98
199	Bowan G. H.	✓	44				44	40
243	Johnson J. S.	✓	66	66	8	58		
303	Young W. H.	✓	66	66	8	58		
281	Moran J. B.	✓	98				98	
271	Oster W.	✓	90	90	8	82		388 00
217	Speirs R. B.	✓	56	56	8	48		94
101	Wagner W. J.							296
141	Burgh J. H.							
111	Spencer A.							
239	Grover A.	✓	90	90	8	82		
305	Robinson R. H.	✓	54	54	8	46		
263	Bates J. L.	✓	90	90	8	82		
260	Minor J.	✓	61	61		61		98
41	Rowan F. J.	✓	24	24		24		
Total 1709					138 06	1365 94	205 00	

321	Baldwin J.		42	42	8	34		
323	Budin W. W.		62	62	4	58		
			1281		116	1067	98 00	

DEPARTMENT OF
HISTORY OF MEDICINE

Dr. Dr. Francis

MacD

The Cua so

last June

Medicine

He

formed

of his

There

all

bo

on Row

Stacy Young - in the

for Friday with his shirt off -

appeared next morning & gave us a good talk.

Kind regards

John H. Green

The line under Osler's name is a pencil mark
made by some one about the time the MS.
came into the possession of the Academy. It is
not a part of the original MS.

JHGO

J. S. M. 1869-70

	Amount	Paid	Practical Anatomy	Lectures	Due
235 Macdonald aa	98	98	8	90	
255 Clarke A	98	98	8	90	
257 Forest W.	53	53		53	
213 Black W. S.	44	44	8	36	Due
237 Wright, H. H.	54	54	8	46	45
307 MacDermid J.	54	54	8	46	
91 White J. J.					
261 Wilkinson A.	28	28	4	24	
309 Lacey J.	42	42	8	34	
207 Ellis W. H.	24	24		24	
257 McKinnon A	90	90	8	82	
103 Taylor A					45
288 Standish Geo.	44	44		44	205
135 Kirk Geo.					98
145 Lett J.					40
195 Graham	12	12		12	
273 Wells S. M.	49	49	8	41	
Hatch, M.D. G. S.					
311 Clough J. A	38	38	4	34	388 00
313 Macnutt G. A	66	66	8	58	92
233 Cole, H. J.	90	90	8	82	296
315 Ivers Ed.	24	24		24	
53 Williams A.D.					
253 Hammett J. R.	36	36		36	
317 McBlittan C.	54	54	8	46	
275 Donaldson J.	98				98
153 Smith C. M.	8	8	8		
193 Delamater R.H.	73	73		73	
319 Smith J. S. S.					
321 Baldwin J.	42	42	8	34	
323 Budin W. W.	62	62	4	58	
	1281		116	1067	98 00

DEPARTMENT OF
HISTORY OF MEDICINE

Dr. Francis,

Macdon

The Quason

Last June or

Medicine

Here

formed 11

of his cl

Thank

So

at the

both

on Bowles

Hope you

for Friday

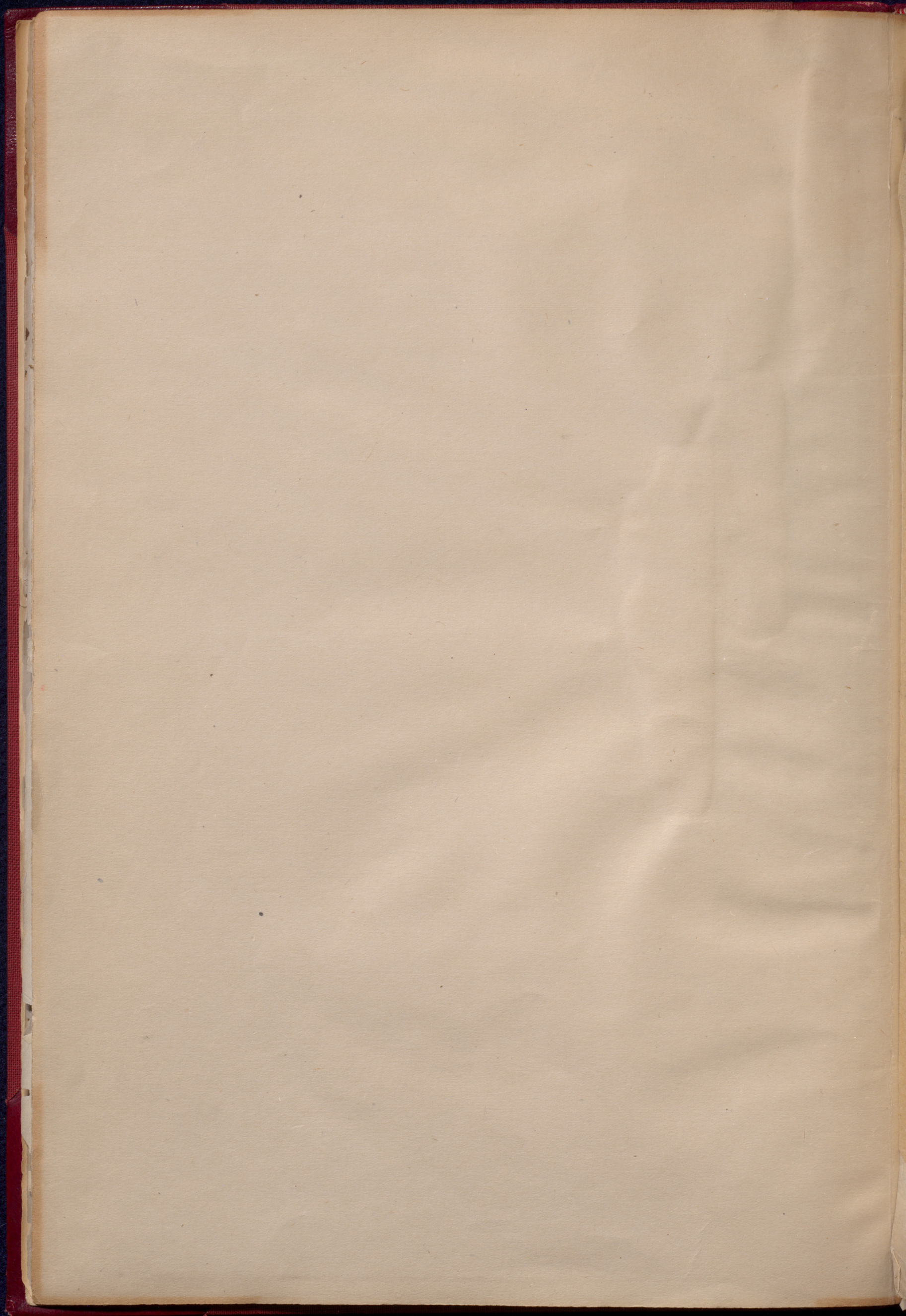
appeared next morning

Kind regards

The line
made by
Cune in
not a

J. S. M 1869-70,

	Am. Hist.	Am. Lit.	Practical Anatomy	Lectures	Over
Young, F. H.	45				45
Wmott, H.					
Johnson, A. J.	8	8	8		
Gilvie, R.	8	8	8		
Mildrum	86	86	4	82	
Pell, H. H.	36	36		36	
Stone, D. H.	58	58		58	
	241		20	176	45
1 st page	1709		138 06	1365 94	205
2 nd page	1281		116	1067	98
H. Letts, P. 1. 40	20	40	4	36	40
53 Williams, A., 1868-69	52	52	8	44	
149 Johnson, A. J., 1868-69	69	69	8	61	
145 Lett. S., 1868-69	44	44		44	
Total 1869-70	3476 00		294 06	2793 94	388 00
199 Cowan, G. H.	44	44		44	92
275 Donaldson, J.				48	296
ARN				24	
				2909 44	



Roman notes

7638

7639

17 April, 1941.

Dr. J. H. Elliott,
11 Spadina Road,
Toronto.

Dear "J. B."

I'll be glad to have that photostat.

Besides that 1st Physiology paper, endorsed and dated 1/4/68 in Osler's old contemporary hand, the volume (no. 7639, described on p. 688 of our "Bibl. Osleriana", 1922) contains two others of which I have some doubts about the dates and locale. They are alike in being written on white foolscap, whereas (i) is on bluish, unruled paper.

I suspect that (ii) and (iii) are both McGill papers, though he has endorsed (ii), in his later hand, in pencil, "Phy. paper Tor. Univ." He would hardly have had to pass two physiology exams at Toronto, whereas he did have to write on it again here -- he had to write on his "primaries" as well as his finals here in 1871-2.

(iii) is on medicine: largely differential diagnosis of (a) typhus and typhoid, (b) convulsions, (c) emphysema, and other chest conditions (and treatment) (d) peri- & endo-carditis, &c. This is endorsed, later, simply "Final paper".

He put that "Toronto" endorsement on (ii) late in life, and, I suspect, before he came across the 1868 paper (i). I think that these, with some other early efforts, came back to him in Oxford from the Gwyn's house at Dundas. Perhaps Norman would know? I don't think W. O. had them with him in Baltimore.

Yours sincerely,

W. W. F.

13 13 13

Roman station

Hollen

June
1868

7639

11. Now that the Roman learning is in common - compare with every form of expression the words
expressed upon form? Now how the words are opposed to each other in their
very shades & shade in Rome - Ireland compare with the Italian.

12. Now the connection of the words is that of the terms: - *storia - amica - libro - historia*
historia - scripta - etiam - libro - amica - compari - obsequia - in opera - placendo -
historia - postea - curia - statum - statum - obsequia - angustia - antea - pides - habet
from the actual interchange of many forms existing between the state & the Italian form.

13. Now the introduction of the words is that of the state - *facta - facta - facta*

14. The entire effect is that of the words - in *amica - in amica - in amica - in amica - in amica*

15. *facta - placet - in placet - in placet - in placet - in placet - in placet - in placet*

16. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

17. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

18. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

19. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

20. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

21. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

22. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

23. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

24. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

25. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

26. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

27. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

28. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

29. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

30. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

31. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

32. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

33. *gratia - clausa - in gratia - in gratia - in gratia - in gratia - in gratia - in gratia*

Almanac History

Any Primitive Indian does Privilege feel so to the tongue? Compare the States
you will find as to - Spanish - negro - accent - pronunciation - case - numbers - habitudes
to mind. Also the characteristic differences of the Latin and the Greek - Semitic details
from the evidence of language that the States proposed of the common culture of the Indo-European

and distinguish fresh from older culture in respect to color and size of colonies. Provide the clean glass-cantors and ligatures in the early days of cultivation.

the probabilities that those spring from two villages, but we are composed of mixed stock.

the last of the total communities are 67. The other approved the following statement:

the medical superiors of my time - to enter buildings - Brown had been all around;

7111. Organization of the American Army - The American people and the reformed Constitution.
The American - American language in the two periods - Settlement in Italy - Constitution of the American.

The great cities in Italy: their relations to the western world.

Explain primitive Roman Jurisdiction as to Jurisdiction - Property - Contract - Private Law. Describe the character of early Roman Law.

except the character of very Norman &c. &c.
That was the distinguishing features of the Historical Norman History? Give the answer with the
deviation of the purely Latin Dialect. Show the present & future - the representation of the State of
things - the turning of the wheel. What do you mean by William - James - &c. &c. &c. Give all the
lines connected with any one or more of them.

Met also seen by the same - Epidemic - prostration - family hemorrhage - Anasarca - hemiplegia -
 pyrexia - prostration - Anasarca - Vomiting - prostration - prostration -
 Anasarca - prostration - Anasarca - prostration - prostration - prostration -

Handwritten text in vertical columns, likely a manuscript or ledger. The text is written in a cursive script, possibly Chinese or Japanese, and is organized into multiple columns across the page. The paper is aged and shows signs of wear, including creases and discoloration.

Ornamentally

Notion

Same + 800

coll 50 mm

7639

Thompson College

$$(i) \frac{\tan(B+\alpha) + \tan(B-\alpha)}{\cot(B+\alpha) + \cot(B-\alpha)} = \tan(B+\alpha) \cdot \tan(B-\alpha), \quad (ii) \sin A + \sin 5A + \sin 9A - \sin 15A = 4 \sin 3A \sin 5A \sin 7A.$$

8. Prove that the area of a triangle $\Delta = \frac{\sqrt{5(5-a)(5-b)(5-c)}}{2}$.

If the triangle have a right angle, reduce this expression to the usual formula $\frac{1}{2}ab$.

9. Show how to solve a triangle when two sides and the included angle are given.

Also show how to solve the triangle by dividing it into two right-angled triangles.

10. Solve completely two out of the three triangles:-

(i) $C = 90^\circ$	(ii) $a = 10165240$	(iii) $a = 272247$
$A = 42^\circ$	$b = .026645$	$b = 8270$
$c = 827$	$c = .027849$	$C = 42^\circ$

11. Two trees stand on a horizontal plane. The elevation of each as observed from the foot of the other, and one of these angles is found to be double of the other. Their elevations are seen upwards at the middle point of the line joining their feet, and these angles are found to be complementary. Prove that the heights of the trees are in the ratio of 4 to 9.

Trinity College

Senior Examination - 1868. Trigonometry

1. Define the common logarithm of a number. Why 'common'?
- Given $\log_{10} 2 = x$, $\log_{10} 3 = y$, prove that $\log_{1000} 108 = \frac{2x+3y}{3}$
2. Prove the rule for multiplying by means of logarithms.
If 2 numbers be multiplied together, show that the number of digits in the product lies between $n-2+1$ and n (inclusive of both), where n is the sum of the numbers of digits in the 2 factors.
3. Find the value of (i) $(55.387)^5$, (ii) $100\sqrt{51892}$.
4. Define the complement and supplement of an angle, and express the sine, tangent and secant of the complement and of the supplements of A in terms of ratios of A .
What advantage is taken of these relations in constructing the tables of logarithms?
5. Prove (i) $\sin^2 A + \cos^2 A = 1$, (ii) $\tan A = \frac{\sin A}{\cos A}$, (iii) $\sec A = 1 + \tan^2 A$, and if $\cot A = \frac{m}{n}$, find $\cos A$ and $\tan A$ in terms of m and n .
6. In any triangle prove the formulas:-
(i) $\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$, (ii) $\cot A = \frac{b^2 + c^2 - a^2}{2bc}$, (iii) $\tan \frac{C}{2} = \sqrt{\frac{(s-a)(s-b)}{s(s-c)}}$
From (iii) deduce (or prove otherwise) $\tan \frac{A}{2} \cdot \tan \frac{B}{2} + \tan \frac{B}{2} \cdot \tan \frac{C}{2} + \tan \frac{C}{2} \cdot \tan \frac{A}{2} = 1$.
7. Prove the formulas (i) $\cos(A \pm B) = \cos A \cos B \mp \sin A \sin B$

[Faint handwritten text, likely bleed-through from the reverse side of the page. The text is mostly illegible due to fading and the age of the paper.]

Algebra

(C)

June 1868

Dr. Olen

Coll. SSYm

Toronto

7639

Trinity College
Examination 1868. Algebra

1. Add together $s-a, s-b, \dots, s-l$, where s is the Arithmetic mean between $a, b, \dots, l$.
2. Write down any formulas by the use of which the Law of multiplication is diminished, and obtain the products of (i) $x+y-z$ & $x-y+z$,

(ii) $x^2 + (a+b)x + ab, x^2 + (b+c)x + bc$ & $x^2 + (c+a)x + ca$

(iii) of the n factors $x^2 - ax + a^2, x^2 - a^2x + a^4, \dots$

3. Find the quotients of (i) $a^{\frac{1}{2}}b^{-\frac{1}{2}} + 2b^{-\frac{1}{2}} + 2a^{-\frac{1}{2}}b^{-\frac{1}{2}} + 2a^{-\frac{1}{2}} \div a^{\frac{1}{2}} + b^{\frac{1}{2}}$,

(ii) $(a+b+c)(a^2+b^2+c^2) + a^2b + ab^2 - c^3 + 2abc \div a+b$,

(iii) $(a^2b^2 - b^2c^2 - c^2a^2 + 2abc^2)x (b^2c^2 - c^2a^2 - a^2b^2 + 2ba^2) \div (c^2a^2 - a^2b^2 - b^2c^2 + 2cab^2)$.

4. Extract the square root of $\frac{x^2}{y^2} + \frac{y^2}{x^2} - \frac{x}{y} + \frac{y}{x} - \frac{13}{4}$.

5. Prove the rule for finding the L.C.M. of two expressions, and show that every common multiple of them is a multiple of their L.C.M.

Find the L.C.M. of the three expressions in question 3, (iii)

6. Give an extended definition of multiplication, and hence prove the rule for multiplying one fraction by another.

Simplify $\frac{p+q}{p+q+9r}x + \frac{q^2x^2}{p+q} \times \frac{p+q}{p+q+9r}x - \frac{q^2x^2}{p+q}$.

7. Bracket together the equivalent quantities among the following -

$\frac{1}{2}a, a^2, a^{\frac{1}{2}}, \sqrt{a}, a^{-3}, \sqrt[3]{a}, a^{\frac{4}{3}}, \sqrt[3]{a^3}, \frac{a^4}{a^7}, a^3 \times a^{-1}$.

8. Show that a surd cannot be equal to the sum of a rational quantity and a surd, and simplify $\sqrt{5} - \sqrt{8} - \sqrt{24 + 8\sqrt{5}}$.

9. Show that a quadratic equation has two, and only two, roots.

Form the equation whose roots are $\alpha + \frac{\beta^2}{\alpha}, \beta + \frac{\alpha^2}{\beta}$, where $\alpha \times \beta = 0$.

are the roots of $ax^2 + bx + c = 0$.

10. Find the sum of n terms of a given (i) Arithmetic (ii) Geom. Progression.
The continued product of every $(n-1)$ of the n quantities, $a, a^3, a^5, a^7, \dots$ is formed; show that the sum of these products will be

$$a^{(n-1)^2} \frac{a^{2n} - 1}{a^2 - 1}.$$

11. Find the sums of the following series:— (i) $\frac{1}{2} + 3 + 4\frac{1}{2} + \dots$ to 10 terms,

(ii) $\frac{1}{2} + 3 + 6 + \dots$ to n terms, (iii) $\sqrt{2} + \frac{2}{3}\sqrt{3} + \frac{2}{3}\sqrt{2} + \dots$ to infinity.

12. Find the number of combinations of n things taken r at a time.
In how many of these will a specified thing occur?

Find the number of ways in which the cards may be dealt—
at-which so that (i) the dealer may have the ace of trumps,
(ii) each player may have an honour.

13. In the expansion of a binomial with a positive integral index, show that terms which are equally distant from the beginning and end have the same coefficients.

If c_r be the coefficient of x^r in the expansion of $(1+x)^n$, prove that $c_1 + 2c_2 + 3c_3 + \dots + nc_n = n2^{n-1}$.

14. Solve the following equations:—

(i) $\frac{x-ay}{b} = 1 = \frac{ax+y}{c}$, (ii) $x^2 + 2y + y^2 = 37$ } (iii) $2(x+y) = a^2 + b^2$
 $x+y = 7$ } $x(y+y) = b^2 + c^2$
 $y(2+x) = c^2 + a^2$

15. If the hands of a watch were to revolve in opposite directions, what interval would elapse between their successive meetings?

17th June

1. $x^2 + 3x + 2 = (x+1)(x+2)$

2. $x^2 + 5x + 6 = (x+2)(x+3)$

3. $x^2 + 7x + 10 = (x+2)(x+5)$

4. $x^2 + 9x + 14 = (x+2)(x+7)$

5. $x^2 + 11x + 18 = (x+2)(x+9)$

6. $x^2 + 13x + 24 = (x+3)(x+10)$

7. $x^2 + 15x + 30 = (x+3)(x+12)$

8. $x^2 + 17x + 40 = (x+4)(x+15)$

9. $x^2 + 19x + 50 = (x+4)(x+17)$

10. $x^2 + 21x + 60 = (x+5)(x+18)$

11. $x^2 + 23x + 70 = (x+5)(x+20)$

12. $x^2 + 25x + 80 = (x+6)(x+23)$

13. $x^2 + 27x + 90 = (x+6)(x+25)$

14. $x^2 + 29x + 100 = (x+7)(x+28)$

15. $x^2 + 31x + 110 = (x+7)(x+30)$

16. $x^2 + 33x + 120 = (x+8)(x+31)$

17. $x^2 + 35x + 130 = (x+8)(x+33)$

18. $x^2 + 37x + 140 = (x+9)(x+35)$

Latin Prose (Pass)

June 1888

R. Oler

Coll. S. T. Min
Toronto

7639

Handwritten notes in Latin script, likely a list or collection of items, written vertically on the right side of the page.

of children. The present like of their lot is for poor; you dare, and they cry, God bless you. The house is the village and on all sides are painted red and all built of brown brick. The floors of the towns are changed with the fragrant tops of fir-trees. A many villages there are no towns, and the present like him is receiving travel.

The year. The emperor then inspected the field of battle; and never was there anything that exhibited a more brilliant spectacle. Everything covered to increase the honors of it: a lowering sky, a cold rain, a winter wind, a situation in color, a plain absolutely brown up and covered with fragrant and wind: all round the origin and funeral wreath of the earth, October becoming in every part among the bodies of the slain, a wonder of a most brilliant description. A richly brown: a tongue of triumph, a lively description; but a general and beautiful scene. Around the eyes was the officer, and a few others, each sufficient to stand the colors: their clothes were brown by the violence of the wind, and stained with blood; go: attending all their rage, misery and death, they displayed a light evening, and seen, in the appearance of the emperor, received him with a clamor of triumph. The horses, armed and dressed in one and gold: for is this army, but it was a battle of discrimination and enthusiasm, each individual and form a course of the position of the state.

When do the yellow leaves come from? when are the trees overhead

John Pope

1st
12th

At this time Hannibal, a fugitive from his own country arrived at the court of Antioch.

After the peace being so great is the admiral's father as he was in the field, he had received order especially in the provincial department of Carthage, so that the city might be day again be in a condition to receive the war with Rome. In this season the Romans, after the peace with Philip, advised to stop his expedition, and hunted him elsewhere he was. He fled from Africa to Antioch, those court was the only one that was free from Roman influence, and he was at first received in a most honorable manner. This favor, however, ceased very soon; for Antiochus found him as pliant, and Hannibal forming a correct estimate of the king's power, told him the truth about the prospect of his success. He made no secret in telling him, that if under the present circumstances he would undertake a war against the Romans - He would ruin his own ruin. He was the only one who spoke thus.

11th 2nd year

There is something extraordinary still lingering about mortal life in children, which renders it a fit theme for song. Almost person and simplicity reigns over that northern land; almost person and solitude and solitude. You go out of the gates of the city, and as if by magic the scene changes to a wild woodland landscape. Around you are forests of fir; on head hang the long pine branches, trailing with sap and heavy with seed and blue cones. Under foot is a carpet of yellow leaves; and the air is warm and hazy. In a wooden bridge you cross a little stream, and are come forth into a pleasant and sunny land of grass. Grasses fence divide the adjoining fields. Along the road are gates, which are opened by two

Handwritten text in Chinese characters, arranged in vertical columns across the right side of the page. The text is written in a cursive style and appears to be a historical document or manuscript. The columns are roughly aligned, with some text bleeding into the left margin.

Handwritten text in Chinese characters, located in the left margin of the page. It is written vertically and appears to be a note or a reference.

Pass Latin

W. Oiler

June 1868

Coll. S.S. Ym

Toronto

7639

Handwritten text in a cursive script, likely a ledger or account book. The text is organized into columns and rows, with some entries starting with "To" and others with "By". The script is written in dark ink on aged, slightly stained paper. The entries appear to be financial or administrative in nature, possibly recording transactions or inventory. The handwriting is somewhat slanted and consistent throughout the page.

7639

Hon Classics

W. Osler

June

1868

Tru Coll
Toronto

Hon Classics

W. Osler

June

1868

Inconsolate (1), Bk IV. v. 11. v. r. 17-32.

(14) *de M^{re} o de gine Bonillo* for V. B^o 8-13-14-22 segata via-23 catas Etadom Lannan-25-26-27-32.

(6) *Pezomachus* - *repulse*-
Ceravis sacrum - *diespites* - *jelle clouds*.

(c) Alaminates - five other cards in these Books pertaining to Horae.
BPK III. slide 23.

(11) BZ III. ocl 23

(a) Remark on: Supinas - rescente luna - horns - alumnus - incunabula - meaning in Blk. IV^K - four pios.

(b) Distinction: P + Q

(6) Distinguish: Larvæ - Pupæ - Females - Larvæ. Quote parallels of offerings to Larvæ.
 (7) x. 20. They be taken in two cases

(10) Y. 20. Many taken in two ways

1111 Incomplete Bk. IV. old VII. better notes critical & complementary

(22) I am the readings in Bk III 4.35. addit - 7.20 fallax - 10.7. ventos - 12.11 ulto - 14.6 quato - 17.13 portis - Bk IV - 5.18. mra - 6.14. ulto - 12.11 ulto - 14.6 quato - 17.13 portis -

Bk 11 - 5.18. Maria - 6.14 - 6.17. 4.20 - 4.21. 4.22 - 4.23. 4.24 - 4.25. 4.26 - 4.27. 4.28 - 4.29. 4.30 - 4.31. 5.1 - 5.2. 5.3 - 5.4. 5.5 - 5.6. 5.7 - 5.8. 5.9 - 5.10. 5.11 - 5.12. 5.13 - 5.14. 5.15 - 5.16. 5.17 - 5.18. 5.19 - 5.20. 5.21 - 5.22. 5.23 - 5.24. 5.25 - 5.26. 5.27 - 5.28. 5.29 - 5.30. 5.31 - 5.32. 5.33 - 5.34. 5.35 - 5.36. 5.37 - 5.38. 5.39 - 5.40. 5.41 - 5.42. 5.43 - 5.44. 5.45 - 5.46. 5.47 - 5.48. 5.49 - 5.50. 5.51 - 5.52. 5.53 - 5.54. 5.55 - 5.56. 5.57 - 5.58. 5.59 - 5.60. 5.61 - 5.62. 5.63 - 5.64. 5.65 - 5.66. 5.67 - 5.68. 5.69 - 5.70. 5.71 - 5.72. 5.73 - 5.74. 5.75 - 5.76. 5.77 - 5.78. 5.79 - 5.80. 5.81 - 5.82. 5.83 - 5.84. 5.85 - 5.86. 5.87 - 5.88. 5.89 - 5.90. 5.91 - 5.92. 5.93 - 5.94. 5.95 - 5.96. 5.97 - 5.98. 5.99 - 5.100. 6.1 - 6.2. 6.3 - 6.4. 6.5 - 6.6. 6.7 - 6.8. 6.9 - 6.10. 6.11 - 6.12. 6.13 - 6.14. 6.15 - 6.16. 6.17 - 6.18. 6.19 - 6.20. 6.21 - 6.22. 6.23 - 6.24. 6.25 - 6.26. 6.27 - 6.28. 6.29 - 6.30. 6.31 - 6.32. 6.33 - 6.34. 6.35 - 6.36. 6.37 - 6.38. 6.39 - 6.40. 6.41 - 6.42. 6.43 - 6.44. 6.45 - 6.46. 6.47 - 6.48. 6.49 - 6.50. 6.51 - 6.52. 6.53 - 6.54. 6.55 - 6.56. 6.57 - 6.58. 6.59 - 6.60. 6.61 - 6.62. 6.63 - 6.64. 6.65 - 6.66. 6.67 - 6.68. 6.69 - 6.70. 6.71 - 6.72. 6.73 - 6.74. 6.75 - 6.76. 6.77 - 6.78. 6.79 - 6.80. 6.81 - 6.82. 6.83 - 6.84. 6.85 - 6.86. 6.87 - 6.88. 6.89 - 6.90. 6.91 - 6.92. 6.93 - 6.94. 6.95 - 6.96. 6.97 - 6.98. 6.99 - 6.100. 7.1 - 7.2. 7.3 - 7.4. 7.5 - 7.6. 7.7 - 7.8. 7.9 - 7.10. 7.11 - 7.12. 7.13 - 7.14. 7.15 - 7.16. 7.17 - 7.18. 7.19 - 7.20. 7.21 - 7.22. 7.23 - 7.24. 7.25 - 7.26. 7.27 - 7.28. 7.29 - 7.30. 7.31 - 7.32. 7.33 - 7.34. 7.35 - 7.36. 7.37 - 7.38. 7.39 - 7.40. 7.41 - 7.42. 7.43 - 7.44. 7.45 - 7.46. 7.47 - 7.48. 7.49 - 7.50. 7.51 - 7.52. 7.53 - 7.54. 7.55 - 7.56. 7.57 - 7.58. 7.59 - 7.60. 7.61 - 7.62. 7.63 - 7.64. 7.65 - 7.66. 7.67 - 7.68. 7.69 - 7.70. 7.71 - 7.72. 7.73 - 7.74. 7.75 - 7.76. 7.77 - 7.78. 7.79 - 7.80. 7.81 - 7.82. 7.83 - 7.84. 7.85 - 7.86. 7.87 - 7.88. 7.89 - 7.90. 7.91 - 7.92. 7.93 - 7.94. 7.95 - 7.96. 7.97 - 7.98. 7.99 - 7.100. 8.1 - 8.2. 8.3 - 8.4. 8.5 - 8.6. 8.7 - 8.8. 8.9 - 8.10. 8.11 - 8.12. 8.13 - 8.14. 8.15 - 8.16. 8.17 - 8.18. 8.19 - 8.20. 8.21 - 8.22. 8.23 - 8.24. 8.25 - 8.26. 8.27 - 8.28. 8.29 - 8.30. 8.31 - 8.32. 8.33 - 8.34. 8.35 - 8.36. 8.37 - 8.38. 8.39 - 8.40. 8.41 - 8.42. 8.43 - 8.44. 8.45 - 8.46. 8.47 - 8.48. 8.49 - 8.50. 8.51 - 8.52. 8.53 - 8.54. 8.55 - 8.56. 8.57 - 8.58. 8.59 - 8.60. 8.61 - 8.62. 8.63 - 8.64. 8.65 - 8.66. 8.67 - 8.68. 8.69 - 8.70. 8.71 - 8.72. 8.73 - 8.74. 8.75 - 8.76. 8.77 - 8.78. 8.79 - 8.80. 8.81 - 8.82. 8.83 - 8.84. 8.85 - 8.86. 8.87 - 8.88. 8.89 - 8.90. 8.91 - 8.92. 8.93 - 8.94. 8.95 - 8.96. 8.97 - 8.98. 8.99 - 8.100. 9.1 - 9.2. 9.3 - 9.4. 9.5 - 9.6. 9.7 - 9.8. 9.9 - 9.10. 9.11 - 9.12. 9.13 - 9.14. 9.15 - 9.16. 9.17 - 9.18. 9.19 - 9.20. 9.21 - 9.22. 9.23 - 9.24. 9.25 - 9.26. 9.27 - 9.28. 9.29 - 9.30. 9.31 - 9.32. 9.33 - 9.34. 9.35 - 9.36. 9.37 - 9.38. 9.39 - 9.40. 9.41 - 9.42. 9.43 - 9.44. 9.45 - 9.46. 9.47 - 9.48. 9.49 - 9.50. 9.51 - 9.52. 9.53 - 9.54. 9.55 - 9.56. 9.57 - 9.58. 9.59 - 9.60. 9.61 - 9.62. 9.63 - 9.64. 9.65 - 9.66. 9.67 - 9.68. 9.69 - 9.70. 9.71 - 9.72. 9.73 - 9.74. 9.75 - 9.76. 9.77 - 9.78. 9.79 - 9.80. 9.81 - 9.82. 9.83 - 9.84. 9.85 - 9.86. 9.87 - 9.88. 9.89 - 9.90. 9.91 - 9.92. 9.93 - 9.94. 9.95 - 9.96. 9.97 - 9.98. 9.99 - 9.100. 10.1 - 10.2. 10.3 - 10.4. 10.5 - 10.6. 10.7 - 10.8. 10.9 - 10.10. 10.11 - 10.12. 10.13 - 10.14. 10.15 - 10.16. 10.17 - 10.18. 10.19 - 10.20. 10.21 - 10.22. 10.23 - 10.24. 10.25 - 10.26. 10.27 - 10.28. 10.29 - 10.30. 10.31 - 10.32. 10.33 - 10.34. 10.35 - 10.36. 10.37 - 10.38. 10.39 - 10.40. 10.41 - 10.42. 10.43 - 10.44. 10.45 - 10.46. 10.47 - 10.48. 10.49 - 10.50. 10.51 - 10.52. 10.53 - 10.54. 10.55 - 10.56. 10.57 - 10.58. 10.59 - 10.60. 10.61 - 10.62. 10.63 - 10.64. 10.65 - 10.66. 10.67 - 10.68. 10.69 - 10.70. 10.71 - 10.72. 10.73 - 10.74. 10.75 - 10.76. 10.77 - 10.78. 10.79 - 10.80. 10.81 - 10.82. 10.83 - 10.84. 10.85 - 10.86. 10.87 - 10.88. 10.89 - 10.90. 10.91 - 10.92. 10.93 - 10.94. 10.95 - 10.96. 10.97 - 10.98. 10.99 - 10.100. 11.1 - 11.2. 11.3 - 11.4. 11.5 - 11.6. 11.7 - 11.8. 11.9 - 11.10. 11.11 - 11.12. 11.13 - 11.14. 11.15 - 11.16. 11.17 - 11.18. 11.19 - 11.20. 11.21 - 11.22. 11.23 - 11.24. 11.25 - 11.26. 11.27 - 11.28. 11.29 - 11.30. 11.31 - 11.32. 11.33 - 11.34. 11.35 - 11.36. 11.37 - 11.38. 11.39 - 11.40. 11.41 - 11.42. 11.43 - 11.44. 11.45 - 11.46. 11.47 - 11.48. 11.49 - 11.50. 11.

(V) fine myricaleto bearing on the life of Grace in New York.

(71) Encephalitis case in: Bk III. 3. 25 adult - 100% land -

1241) Explain use of orthotics. also some crutches contain hospitalis amici - 4-10 required - 4-5

albus (*Sapox*) - *pia* (*tota*), *derisive* *Lurichus* - *Lascivius*.
 (VIII) *Est. Lurichus* - *Lascivius*.

(8) Meaning of: *orientis hacti* - close to
dignis moreri - vegetavit *populorum* - abstineto *varam* - palluit *franchet*.
purpurearum vobis clarior - pallit brachio III. 16.32 - *Mante popalata* 3.24 -

(8) Meaning of: *orientis* hactenus - abstineto in arum - pallerit fractantes.

Sonchus oleraceus - clelandat hi Campum - camenta den dit redemptis - Capitis minor
Aster pomicos - ex cultu Chae - genium curbs - Solitatis malet vermonibus - fisco hacho - vetit
Cyrtus alba - prachi d'victor et aras - deripue horro -

Line parallel (r) - Iris brownish - Siphon elongated (transverse) - Vagus thoracic - Altrici & Apulie -
Tene condilum clatus - Iris consili capere mole sunt una - Scopulis surdis in Securi (M. 1800) - Sicone p. ad hunc -
Vel t. 1800

What's your brain, Lucie? - Splendid! Not a dose - Nil capientium. Nucleus ciliaris pto - later hypanus -
 within fugal - agnosa Ida - Campobes Sythia etc - Serpino Similia Sagittae - Centron of his Britain (D'Arpaz?)
 Lide Shan... (M. h. ...)

2 de Shanous (Thyphes) - Vire - inter verba adit lingua - regnum in auro - inter verba vultus -
providil lute - potine aliti - splendide arbutia - belluans Oceanus (Thyphes) - in tace sortis .

Χαλκί φιδ χαλκισοθα.

Handwritten text at the top right of the page.

Handwritten text in the middle right section.

Handwritten text in the lower right section.

Handwritten text in the lower right section, possibly a signature or date.

Main body of handwritten text, appearing as a list or series of entries across the page.

Medea & Hypoclytus

Mr. Osler

June

1868

J MacColl

Donuts

7639

(1111) Metre of Lyrical page vi. 63-69.

My friend

Dear friend, I have been thinking of you very much lately.

I hope you are well and happy. I have been very busy lately.

I have been thinking of you very much lately. I hope you are well and happy.

I have been thinking of you very much lately.

Yours truly,

John Doe

I have been thinking of you very much lately.

I have been thinking of you very much lately.

I have been thinking of you very much lately.

I have been thinking of you very much lately.

I have been thinking of you very much lately.

I have been thinking of you very much lately.

I have been thinking of you very much lately.

I have been thinking of you very much lately.

I have been thinking of you very much lately.

I have been thinking of you very much lately.

I have been thinking of you very much lately.

I have been thinking of you very much lately.

I have been thinking of you very much lately.

OSLER
Niche3
folio
B.O.7639
#252331672

